

†9/I



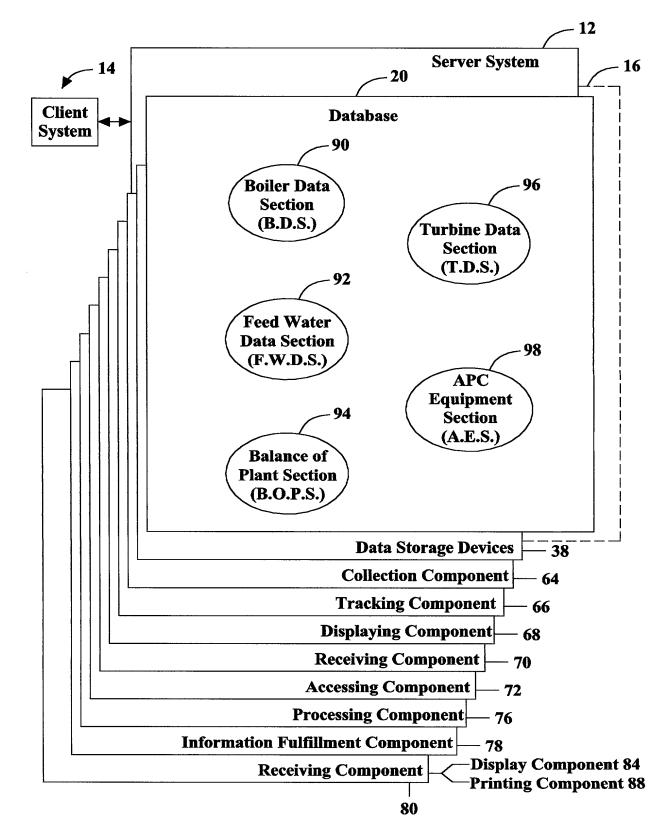


FIG. 3

File Name CoalPerf031601

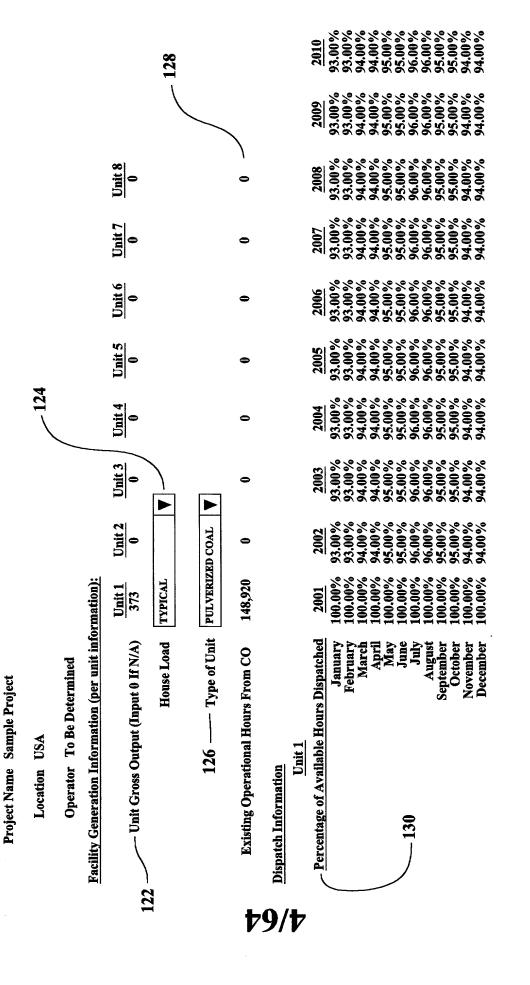


FIG. 4

132

7

2010 93.00% 93.00% 94.00% 95.00%	26.00% 95.00% 95.00% 94.00% 98.00% 97.00% 98.00% 98.00% 98.00% 98.00% 98.00%
2009 93.00% 93.00% 94.00% 95.00%	$\frac{96.00}{95.00}$ $\frac{96.00}{95.00}$ $\frac{200}{95.00}$ $\frac{200}{95.00}$ $\frac{98.00}{95.00}$ $\frac{99.00}{95.00}$ $\frac{98.00}{95.00}$
2008 93.00% 94.00% 95.00% 95.00%	$\frac{95.00\%}{95.00\%}$ $\frac{95.00\%}{95.00\%}$ $\frac{2008}{95.00\%}$ $\frac{2008}{95.00\%}$ $\frac{98.00\%}{95.00\%}$ $\frac{98.00\%}{98.00\%}$ $\frac{98.00\%}{98.00\%}$
2007 93.00% 93.00% 94.00% 95.00%	20.00% 95.00% 95.00% 94.00% 98.00% 98.00% 99.00% 98.00% 98.00% 98.00%
$\begin{array}{c} 2006 \\ \hline 2006 \\ 93.00\% \\ 94.00\% \\ 95.00\% \\ 95.00\% \\ \end{array}$	2000% 95.00% 95.00% 94.00% 98.00% 99.00% 99.00% 98.00% 98.00% 98.00% 98.00%
$\begin{array}{c} 2005 \\ 93.00\% \\ 94.00\% \\ 94.00\% \\ 95.00\% \\ 95.00\% \\ \end{array}$	200% 95.00% 95.00% 94.00% 98.00% 98.00% 99.00% 99.00% 98.00% 98.00% 98.00%
2004 93.00% 93.00% 94.00% 95.00% 95.00%	98.00% 98.00% 98.00% 98.00% 98.00% 98.00% 98.00% 98.00% 98.00%
2003 93.00% 94.00% 94.00% 95.00%	98.00% 95.00% 95.00% 94.00% 98.00% 98.00% 99.00% 98.00% 98.00% 98.00%
200 <u>2</u> 93.00% 93.00% 94.00% 95.00%	96.00% 95.00% 95.00% 94.00% 98.00% 99.00% 99.00% 98.00% 98.00% 98.00%
2001 93.00% 93.00% 94.00% 95.00%	20.00% 95.00% 95.00% 94.00% 98.00% 99.00% 99.00% 98.00% 98.00% 98.00%
Percentage of Available Hours Dispatched January February March May	Septe Occ Nove Dispatched Jar Feb Nove Nove Dece
P -I	†9/9

FIG. 6

	2010	93.00%	93.00%	94.00%	94.00%	32.00%	95.00%	%00.96	%00.96	95.00%	32.00%	94.00%	94.00%	2010	%00%	%00.86	97.00%	%00.86	%00.86 %00.86	%00.66	100.00%	100.00%	%00.66 %00.00	%30%	%00%	98.00%
	2009	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%	2009	%00%	%00.86	%00.26	%00.86	%00.86	%00.66	100.00%	100.00%	%00.66	%00%	%00.86 86.60%	98.00%
	2008	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%	2008	%00%	%00%	%00.26	%00.86	38.00%	%00.66	100.00%	100.00%	%00.66	%00.86	%00%	%.00%
	2007	93.00%	93.00%	94.00%	94.00%	%0026	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%	2007	%00%6	98.00%	%00.26	800%	%00.86	%00.66	100.00%	100.00%	%00.66	%00%	%00%	%00.86
	2006	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	36.00%	%00.96	95.00%	95.00%	94.00%	94.00%	2006	%0086	98.00%	92.00%	%00.86	38.00%	%00.66	100.00%	100.00%	%00.66	%00.86	%00.86	%00.86
	2005	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%	2005	98 00%	98.00%	97.00%	38.00%	%00.86	%00.66	100.00%	100.00%	%00.66	%00%	%00%	%00%
	2004	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	%00 %	94.00%	94.00%	2004	% UU 80	%00.86 %00.86	97.00%	%0086	%00.86	%00.66	100.00%	100.00%	%00.66	38.00%	%00.86	38.00%
	2003	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%	2003	% UU 80	98.00%	97.00%	%00%	%00%	%00.66	100.00%	100.00%	%00.66	%00.86	%00%6	%00.86
	2002	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%	2002	7000 00	%00% 08.00%	%00.26	800%	%00.86	%00.66	100.00%	100.00%	%00.66	%00.86	%00.86	%00.86
	2001	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%	2001	00 000	98.00%	97.00%	%00%	%00%	%00.66	100.00%	100.00%	%00.66	%00.86	%00.86	%00.86
Unit 3	Percentage of Available Hours Dispatched	January	February	March	April	VeM	June.	vial.	Angust	Sentember	October	November	December	Disnatched Load		Janual y February	March	April	www	June Tune	July	August	September	October	November	December
	Per												7	9/	Z	4										

FIG. 7

	2010	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%	979	7010	%00.86	%00%	97.00%	%00%	38.00%	%00.66	100.00%	100.00%	%00.66	%00.86	38.00%	38.00%
	2009	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%	0000	7007	38.00%	%00.86	%00'26	38.00%	38.00%	%00.66	100.00%	100.00%	%00.66	%00.86	%00.8 6	%00.86
	2008	93.00%	93.00%	94.00%	94.00%	95.00%	32.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%	0000	2002	%00.86	38.00%	%00.26	38.00%	%00.86	%00.66	100.00%	100.00%	%00.66	%00%	38.00%	%00%6
	2007	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%	i d	/007	38.00%	%00.86	%00. 26	%00.86	%00.86	%00.66	100.00%	100.00%	%00.66	%00.86	38.00%	%00%
	2006	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.9 6	%00.96	95.00%	95.00%	94.00%	94.00%	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	9007	%00.86	%00.8 6	%00.26	%00.86	%00.8 6	%00.66	100.00%	100.00%	%00.66	38.00%	38.00%	%00.86
	2005	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%		2002	%00%	38.00%	97.00%	38.00%	38.00%	%00.66	100.00%	100.00%	%00.66	%00.86	%00.86	%00.86
	2004	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00'96	%00.96	95.00%	95.00%	94.00%	94.00%	,	2004	%00.86	%00.86	%00'26	38.00%	%00.86	%00.66	100.00%	100.00%	%00.66	38.00%	%00.86	38.00%
	2003	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00'96	95.00%	95.00%	94.00%	94.00%		2003	%00%	%00.86	%00.26	%00.86	98.00%	%00.66	100.00%	100.00%	%00.66	%00%	%00.86	%00.86
	2002	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00'96	%00.96	95.00%	95.00%	94.00%	94.00%		2002	%0086	98.00%	97.00%	%00%	%00.86	%00.66	100.00%	100.00%	%00.66	%00%	38.00%	38.00%
	2001	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%		7007	98.00%	38.00%	97.00%	38.00%	38.00%	%00.66	100.00%	100.00%	%00.66	38.00%	%00.86	%00.86
Unit 4	Percentage of Available Hours Dispatched	January	February	March	April	May	June	July	August	September	October	November	December		Dispatched Load	January	February	March	April	May	June	July	August	September	October	November	December
	Pe													7	9)/	8	}									

FIG. 8

	2010	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	32.00%	32.00%	94.00%	94.00%	2010	%00%	%00.86	97.00%	%00.86	38.00%	%00.66	100.00%	100.00%	%00.66	98.00 <i>%</i>	%00.86	98.00%
	2009	93.00%	93.00%	94.00%	94.00%	95.00%	%00.56	%00.96	%00.96	32.00%	32.00%	94.00%	94.00%	2009	98.00%	98.00%	97.00%	800%	%00.86	%00.66	100.00%	100.00%	%00.66	%00%	%00%	%00%
	2008	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00'96	95.00%	95.00%	94.00%	94.00%	2008	98.00%	%00%	92.00%	800%	%00.86	%00.66	100.00%	100.00%	%00.66	%00.86	%00.86	%00.86
	2007	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00'96	%00.96	%00'56	95.00%	94.00%	94.00%	2007	98.00%	98.00%	97.00%	%00%6	%00%6	%00.66	100.00%	100.00%	%00.66	%00%	%00.86	%00%
	2006	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00'96	%00.96	95.00%	95.00%	94.00%	94.00%	2006	98.00%	%00%6	97.00%	%00.86	800%	%00.66	100.00%	100.00%	%00.66	%00.86	%00.86	%00.86
	2005	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%	2005	%00%6	98.00%	97.00%	%00%	38.00%	%00.66	100.00%	100.00%	%00.66	%00.86	%00.86	%00%
	2004	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	%00%	%00'56	94.00%	94.00%	2004	98.00%	98.00%	97.00%	%00%6	38.00%	%00.66	100.00%	100.00%	%00.66	%00%	38.00%	38.00%
	2003	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	30.00 %	%00.96	95.00%	95.00%	94.00%	94.00%	2003	98.00%	98.00%	97.00%	%00%	%00%	%00.66	100.00%	100.00%	%00.66	%00.86	38.00 %	38.00%
	2002	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%	2002	%00.86	98.00%	97.00%	%00%	%00%	%00.66	100.00%	100.00%	%00.66	%00%	38.00%	%00.86
	2001	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	%00.56	95.00%	94.00%	94.00%	2001	98.00%	%00 . 86	97.00%	%00%	%00.86	%00.66	100.00%	100.00%	%00.66	%00.86	%00.8 6	%00.86
Unit 5	Percentage of Available Hours Dispatched	January	February	March	April	May	June	July	August	September	October	November	December	Dispatched Load	. January	Fehrnary	March	April	May	June	July	August	September	October	November	December
	ايم										ţ	7)/	6												

FIG. 9

	Percentage of Avail											t	-9)/	′0												
Unit 6	Percentage of Available Hours Dispatched	Tannakı	Fohrnary	Morch	Anril	May	duil.	Vini.	Anonst	Sentember	October	November	December		Dispatched Load	January.	Fehrnary	March	Anril	May	enil.	VIII.	Angust	September	October	November	December
	2001	03 00%	300%	04 00%	04.00%	%00°56	%00°%	%00.96 00.96	%00'96	%00.56	95.00%	94.00%	94.00%		2001	%00%	%00 86	%00.76 97.00%	98.00%	98.00%	%00.66	100,00%	100.00%	%00.66	%00%	%00%	%00.86
	2002	93.00%	93.00%	94.00%	94.00%	%00°%	95.00%	%00.96 %00.96	%00.96	95.00%	95.00%	94.00%	94.00%		2002	%00%6	98.00%	%00°26	98.00%	98.00%	%00.66	100.00%	100.00%	%00.66	%00.86	%00.86	38.00%
	2003	93.00%	83.00%	94.00%	94.00%	95.00%	95.00%	%00°96	%00.96	%0026	95.00%	94.00%	94.00%		2003	%00.86	%00%	97.00%	800.86	98.00%	%00.66	100.00%	100.00%	%00.66	%00%	%00%	%00.86
	2004	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%	•	2004	%00%	%00.86	97.00%	98.00%	%00.86	%00.66	100.00%	100.00%	%00.66	38.00%	%00.86	800%
	2005	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%	1	2005	%00.86	%00.86	%00.26	%00%	%00%	%00.66	100.00%	100.00%	%00.66	%00.86	%00.86	38.00%
	2006	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%	,	2006	98.00%	98.00%	97.00%	%00%	%00.86	%00.66	100.00%	100.00%	%00.66	%00.86	%00.86	%00.86
	2007	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00'96	%00'96	95.00%	95.00%	94.00%	94.00%		2007	%00%	38.00%	97.00%	38.00 %	%00%6	%00.66	100.00%	100.00%	%00.66	%00%	%00%	%00%6
	2008	93.00%	93.00%	94.00%	94.00%	%00%	95.00%	%00'96	%00.96	32.00%	95.00%	94.00%	94.00%	0000	2008	%00.86	%00%	%00'26	%00.86	38.00%	%00.66	100.00%	100.00%	%00.66	%00.86	%00.86	%00.86
	2009	93.00%	93.00%	94.00%	94.00%	95.00%	32.00%	%00'96	%00.96	95.00%	32.00%	94.00%	94.00%	0000	2009	%00.86	%00.86	%00′26	%00%6	%00.86	%00.66	100.00%	100.00%	%00.66	%00.86	%00.86	%00.86
	2010	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	%00.96	%00.96	95.00%	95.00%	94.00%	94.00%	0700	2010	%00%	%00.86	97.00%	%00.86	%00.8 6	%00.66	100.00%	100.00%	%00.66	%00%	%00%	%00.86

FIG. 10

FIG. 11

2010 33.00% 33.00% 34.00% 55.00% 95.00% 95.00% 94.00%	2010 98.00% 98.00% 98.00% 100.00% 100.00% 98.00% 98.00%
	98.00% 98.00% 98.00% 98.00% 99.00% 100.00% 98.00% 98.00%
2008 93.00% 93.00% 94.00% 95.00% 95.00% 95.00% 94.00%	2008 98.00% 98.00% 97.00% 99.00% 100.00% 99.00% 98.00%
2007 93.00% 93.00% 94.00% 95.00% 95.00% 95.00% 94.00%	2007 98.00% 98.00% 97.00% 99.00% 100.00% 99.00% 98.00%
2006 93.00% 93.00% 94.00% 95.00% 96.00% 95.00% 94.00%	2006 98.00% 98.00% 97.00% 100.00% 100.00% 98.00% 98.00%
2005 93.00% 94.00% 95.00% 96.00% 95.00% 95.00% 94.00%	2005 98.00% 98.00% 97.00% 98.00% 100.00% 99.00% 98.00% 98.00%
2004 93.00% 93.00% 94.00% 95.00% 96.00% 95.00% 95.00% 94.00%	2004 98.00% 98.00% 97.00% 98.00% 99.00% 100.00% 99.00% 98.00%
2003 93.00% 94.00% 95.00% 95.00% 95.00% 95.00% 95.00%	2003 98.00% 98.00% 97.00% 99.00% 100.00% 100.00% 99.00% 98.00%
2002 93.00% 94.00% 95.00% 95.00% 95.00% 95.00% 94.00%	2002 98.00% 98.00% 97.00% 99.00% 100.00% 100.00% 99.00% 98.00% 98.00%
2001 93.00% 93.00% 94.00% 95.00% 95.00% 95.00% 95.00%	2001 98.00% 98.00% 99.00% 99.00% 1100.00% 100.00% 99.00% 98.00%
Percentage of Available Hours Dispatched January February March April May June June June June June June June June	Dispatched Load January February March April May June June June July August September October November
ntage of Ave	
Perce	17/0

FIG. 12

Fuels Information: 14

ACTUAL ANALYSIS

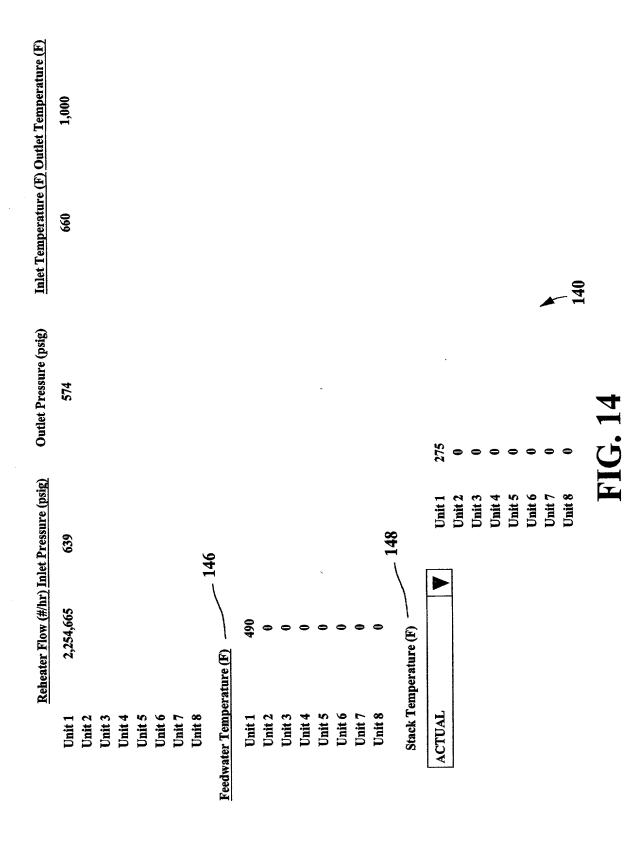
Moisture &	Ash Free	Proximate (Sulf	fur Free)
Carbon	74.66%	Fixed Carbon	34.00%
Hydrogen	5.26%	Volatile Matter	30.70%
Nitrogen	1.08%	Moisture	29.80%
Chlorine	0.02%	Ash	5.60%
Sulfur	1.31%		
Oxygen	18.24%	Excess Air	20.00%
		HHV	9.500

Ash Mineral Analysis

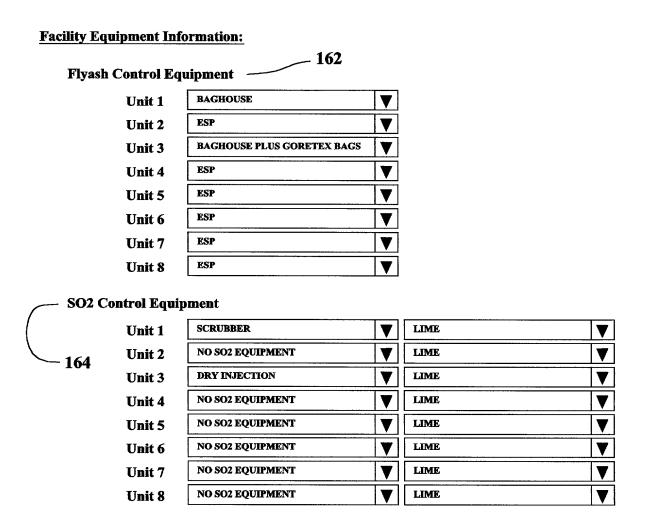
Silica - SIO2	31.00%
Alumina - Al2O3	14.00%
Titania - Tl2O3	1.10%
Ferric Oxide - Fe2O3	6.60%
Lime - CaO	24.60%
Magnesia - MgO	6.00%
Potassium Oxide - K2O	0.26%
Sodium Oxide - Na2O	1.30%
Sulfur Trioxide - SO3	12.20%
Phosphorous Pentoxide - P2O5	0.70%
Undetermined	2.30%

Operational Information:

	Superheater Flow (#/hr)	Outlet Pressure (psig)	Outlet Temperature
Unit 1	2,568,331	2,400	1,000
Unit 2			
Unit 3			
Unit 4			
Unit 5			
Unit 6			
Unit 7			
Unit 8		•	
		1 40	



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FIG. 15

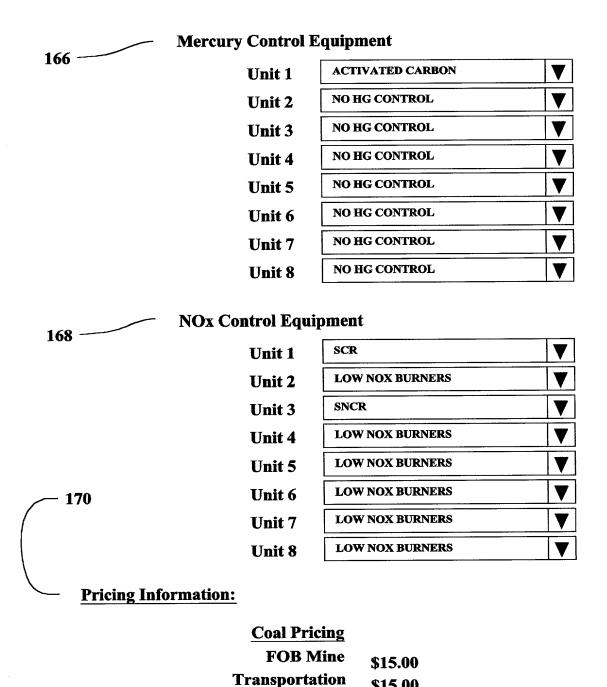




FIG. 16

\$15.00 \$30.00

Wit	Without QF Steam	Steam	With Equiv. QF Steam	Stean					
Superheater Flow: Reheater Flow:	2,568,331 2,254,665		2,568,331 2,254,665		<u> </u>	lb/hr lb/hr			
	Superheat	Reheat	QF HEAT LOSS		No Loss		ž	No Loss	Included
Inlet Conditions:			Pounds Per Hour	r Hour	0				
Steam Pressure - psia	2,470	639					Pou	Pounds Per Year	0.0000E+00
Steam Quality	0		Pressure - psia	e - psia	464,696				
Water/Steam Temp F	490	099	Temperature	rature	460				
Enthalpy	476	1,325	Degrees of SH	HS Jo	50				
Outlet Conditions:			QF Steam Enthalpy	thalpy	1243.18		210		
Steam Pressure - psia	2,415	589	FW Enthalpy	thalpy	476.14				
Steam Temp Deg. F	1,000	1,000	Heat Loss - Btu's	. Btu's	0	Btu's			
Enthalpy	1,460	1,518	Increase in Steam - #/hr	- #/hr	0	#/hr	Reheat	- Reheat-To Superheat Ratio	Ratio 0.877871661
Heat Input	984	192			0.00%				
			- Equiv. Output - MW	- MW	373	MW		MCR	Partial Load
	208						.255	0.0000	0.0000
						1	75.	0 0 0 0	0 0480

FIG. 17

PREDICTED PERFORMANCE: AVERAGE LOAD	GE LOAD	100%	(MCR)	95.00%		- 2
FUEL Pulverized Coal						ω 4
THERINE STEAM FLOW CORRECTION FACTOR		0.9589		0.9589		1 0
TONDENE STEAM THO WOOLGO STOCK	lb/hr	2,568,331		2,439,914		9 1
	lb/hr	2,254,665		2,141,932		۲ (
TEMP AT STIPERHEATER/REHEATER OUTLET	E	1,000	1,000	1,000	1,000	x
PRES AT SUPERHEATER/REHEATER OUTLET	psig	2,400	574	2,400	574	y
REDWATER TEMP.	- E	490		490		3 ;
GAS TEMP, LEAVING AIR HEATER	Έ4	275		268		1 5
(uncorr.)		;		Ġ		1 2
	Œ	<u>@</u>		26		3 2
AIR TEMP, LEAVING THE AIR HEATER (APPROX)	E	552		9		1 4
FXCFSS AIR	pct	20		07		15
HFAT LOSS —	•			, ,	AH'A	1 10
DRY GAS	pct	4.36%		4.20%	4.20%	101
(19k H20 & H2 IN FUEL	pct	8.04%		8.02%		9
H20 IN	pet	0.10%		0.10%	•	<u> </u>
CARRON	Det	0.25%		0.24%	0.20%	3 3
RADIATION	pet	0.35%		0.33%	0.33%	77
MRG. MARGIN	oct	1.50%		1.43%	1.43%	77
HEAT CREDITS	net	-0.41%		-0.39%		23
RIOWDOWN	Det	0.00%		0.00%		77
TOTAL	bct	14.19%		13.92%	6.15%	52
(, to	85.81%		86.08%	93.85%	3 72
EFFICIENCY (198						8 2
7						3 8
GROSS HEAT FIRED	MM/btu/hr	3,554.99		3,366.55		31
_		_	_	-		
	ETC 10		190			

†9/81

FUEL FIRED PER HOUR	lb/hr TPH	418,234 t	tonnes/hr 190	396,065 t	tonnes/hr 180
AVERAGE LOAD CONDITION DURING AVAILABLE HOURS AVAILARLE HOURS	%	100.00% 8.256		95.00% 8,256	}
FUEL FIRED PER YEAR	t/yr	1,726,472		1,634,955	
TOTAL COMBUSTION PRODUCTS	lb/hr	3,601,358		3,410,456	
ale Notestamon teach	ACFM lb/br	1,109,079 3,183,124		3.014.392	
	ACFM	997,176		`	
TOTAL ASH (100% UP)	t/hr	11.50		10.89	
TOTAL LIMESTONE (100% UP)	t/hr	3.10	-	2.93	
	t/hr	25,586		24,230	
TOTAL FLYASH/LIMESTONE REMOVAL SYSTEM LOADING	t/hr	14.60		13.83	
FLUE GAS TO STACK	lb/hr	3,601,358		3,410,4560 0	
LUNGSTROM AIR HEATEN LEARAGE		>		• •	
SOOTBLOWING STEAM	lb/hr	0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		0 730 014	
NET EVAPORATION POUNDS STM/KW	ID/DI	6.89		L, C, CC+, 2	
NO. OF UNITS		1			
HEAT RATE CALCULATION (APPROX.)					
Gross Heat Rate (Total Plant):	BTU/KW HR				
Net Heat Kate (Turbine Only): ———————————————————————————————————	BIU/NW HK	BTU/kW HR	kJ/kWh	BTU/kW HR	kJ/kWh
Plant Gross Heat Rate:			10,068	9,513	10,036
101	du Walita	10 008 HHV	9,510	8,/90 10.066	10,621
Flant Net Heat Kate:		0000	200	0000	000

FIG. 19

Total		Į <u>r</u> i	1	~	F 4	æ	X		Z	>	>>>>
Unit 8		\$8,459,453	\$327,939	0\$	80	0 \$	\$4,100,334		\$410,033		\$1,731,661 \$766,330 \$149,151 \$62,661 \$176,591
Unit 7											
Unit 6											
Unit 5											220
Unit 4											
Unit 3											
Unit 2											. 20
Unit 1											FIG. 20
2001 Total Plant Costs	0 0=	\$8,459,453	\$327,939	0\$	0\$	0\$	\$4,100,334	umed in 1998)	\$410,033		\$1,731,661 \$766,330 \$149,151 \$62,661 \$1,76,591 \$2,866,394
	Direct Labor: Adjusted for local labor requirements yes=1, no=0		Operator's Fees & Services:	Bonus Payments:	Home Office Technical Support: Percent of Annual Labor:	Warranty Support: Percent of Annual Labor:	Planned Maintenance:	Boiler: Turbine: (Major Turbine Outage assumed in 1998) APC Equipment: Feedwater System: BOP:	Unplanned Maintenance: 10% of Planned Maintenance:	Planned Spare Parts:	Boiler: Turbine: APC Equipment: Feedwater System: BOP:
							b '	9/07			

Unplanned Spare Parts:	\$288,639									\$288,639	>
	886,300									\$86,300	Œ,
and Services:	\$286.422									\$286,422	Į Z į
Other Employee Expenses, rees and Det vices:	600									8381 973	[*
Office/Administration expenses:	\$381,973									, (100 m)	1
Contract Services:	Included										
I of Call of Callings Lances		\$1,126,990	80	3	S	80	2 0	0\$	98	\$1,126,990	>
Abi Disposar.		\$64,716	80	8	2	0\$	80	0\$	%	\$84,715	>
	2379.977									\$379,977	>
	998 8473									\$458,866	>
icals:	000000	\$48,510,069	9	8	8	20	8	%	S	\$48,610,069	>
Coal:		\$359,458	80	3	8	\$0	%	%	8	\$359,458	>
Limestone:		\$212,706	8	3	8	8	8	8	80	\$212,706	>
Furthern Force:	\$1,416,663									\$1,416,663	>
Total Operating Budget Case 4											
Taxes Insurance Not Included! Building Data Base	2 2 2 2										
2	0\$::									\$0 \$69,780,837	
Gross kW generated Annually		2,921,795,923	•	•	•	•	•	•	0	2,921,795,923	Ξ.
Cost of Generation:										\$0.0239	
	FIC	FIG. 21					7	220			

†9/17

O & M Cost Summary For: 2000

Direct Labor:	Fixed Costs \$6,459,453	Variable Costs	Major Maintenance	Fuel
Operator's Fees & Services:	\$327,939			
Bonus Payments:	\$0			
Home Office Technical Support:	\$0			
Warranty Support:	\$0			
Planned Maintenance:			\$4,100,334	
Power Marketing & Resource Management:	\$0			
Unplanned Maintenance:			\$410,033	
Planned Spare Parts:				
Boiler: Turbine: APC Equipment: Feedwater System: BOP:		\$1,731,661 \$756,330 \$149,151 \$82,661 <u>\$176,591</u> \$2,866,394		

Unplanned Spare Parts:

\$2,886,394

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Employee Travel & Relocation: \$86,300

Other Employee Expenses, Fees \$286,422

and Services:

Office/Administration expenses: \$361,973

Contract Services: Included

Ash Disposal: \$1,126,990

Start-up Fuel: \$84,716

Consumables: \$379,977

Chemicals: \$458,886

Coal: \$46,510,069

Limestone: \$359,458

Purchased Power: \$212,706

Equipment Rental: \$1,418,553

| Generation | 1 | Costs | Costs | Total Operating Budget | \$9,622,066 | \$7,216,116 | \$4,610,068 | \$4,610,068 | \$69,780,637 | 13.65% | 10.35% | 8.47% | 8.47%

Fixed Costs Variable Costs Maintenance Maintenance \$0.0033 \$0.0026 \$0.0166 \$0.0166 \$0.0239

Total

File Name: CoalPerf031601 Project Name: Sample Project

Location: USA

Operator: To Be Determined

,									_		
Facility Generation Information (per unit information)	per unit information)	Unit 1	Unit 2 0	Unit 3	Unit 4	Unit 5	Unit 6 0	Unit 7	Unit 8	Total	
Facility Net Output:	Use typical value=1, Actual=2	352.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	352.0 MW	MW
House Load (~5.5%):	House Load in MW	5.50% 20.49	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	MW
Line Losses: Unit Gross Output:	Total Installed Capacity in MW 373	373	0	0	0	010	010	0 0	010	Total 373	MW
	Equivalent Gross	373	0	0	0	0	0	0	0	373	MW
O&M Costs Calculated:	Based on Actual Gross Output = 1	~	-	-	-	-	-	=	=		•
Equiv. Increased MW Output: (Approximate)	based on Equiv. Gross Output = 2 0 #/hr	$\frac{0}{373}$	010	O O	010	010	010	• •	0 0		MW MW
Gross Output Used in O&M Calculations:	ulations:	373	0	•	0	•	•	•	•		MM
Unit Net Heat Rate (HHV)	(Full Load Calculated Value) BTU/KW I kJ/kWh	BTU/KW HR 10,098 kJ/kWh 10,654	• •	• •	• •	0 0	• •	• •	• •	Btu/kWh kJ/kWh	

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FIG. 24

	Operational Information For:	2001										
	Base O&M Labor Costs On	Unit In Operation	on Yes=1, No=0	Unit 1	Unit 2 0	Unit 3 0	Unit 4 0	Unit 5 0	Unit 6 0	Unit 7 0	Unit 8 0	Total 1
	Gross Maximum Capacity Net Maximum Capacity	9,867		373 352	• •	• •	• •	• •	• •	00	• •	373 352
	Gross Generation (Actual)		Net Capacity Factor Availability Factor		9 9	0.00%	0.00%	0.00%	0.00%	0.00%	%%	702, 100,
		Gross	Gross Generation (Actual) Net Generation (Actual)	1) 2,921,796 1) 2,761,097			- •					2,761,097
t 0.	Period Hours Available Hours Forced Outage Hours Planned Outage Hours Maintenance Outage Hours	Per Year = 1, Per M ge Hours ge Hours ge Hours	Month = 2 1	8,760 8,256 0 0	00000			0000		0000	0000	•
/97	Average Load Condition (Gross) Average Load Condition (Net)	MW % MW	Check 0.9589	354 89.53% 334 95.00%	0.00% 0.00% 0.00%	0.00% 0.00% 0.00%	0 0.00% 0 0.00%	0.00% 0 0.00%	0 0.00% 0 0.00%	0.00% 0 0.00%	0.00% 0 0 0.00%	MW MW
	QF Steam For: QF Steam Flow (% of MCR) Pounds Per Hour (Average) Pounds Per Year Pressure (psig) Degrees of SH (F) (Input 0 for saturated stean	Or Steam Flow (% of MCR) Ounds Per Hour (Average) Tressure (psig) Degrees of SH (F) (Input 0 for saturated steam or input actual degrees of SH)	ut actual degrees (Unit 1 0% 0 0 0 450 450 sf SH)	Unit 2 0% 0 0 450 50	Unit 3 0% 0 0 0 450 50	Unit 4 0% 0 0 450 50	Unit 5 0% 0 0 450 50	Unit 6 0% 0 0 450 50	Unit 7 0% 0 0 450 50	Unit 8 0% 0 0 450 50	242
	Cost Related Information: Escalation Date			17-Mar-01					Ĵ	244		

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- Tonn	6.66 7.55 8.61 113.36% 114.04%	Ash - Tonne Basis 21.35 22.68 26.22 106.23% 115.61%			
	\$/ton - FOB Mine per ton per tonne	MM Btu's/ton \$/MM Btu's - FOB mine \$/MM Btu's - Delivered			
4.00% 01-May-94 \$0.060 147.00 154.00	USB \$15.00 \$15.00 \$30.00 \$33.07	17.00 \$0.88 \$1.76 \$10.00	\$0.00 \$0.00 \$15.00	2 \$0.80	\$0.50
Input for day of the year of work Base omposite	Coal FOB mine: Transportation:	LIMESTONE 1 LIME 2	Lime FOB Mine: Transportation: Total:	Oil = 1; $NG = 2$ Per Gallon (Delivered)	NG Cost Per Therm Transportation:
Escalation Rate Last Major Turbine Overhaul Input for day of Cost of Purchased Electricity Location Adjustment Index CPI Composite Material Labor	Exchange Rate (X/US\$) Cost per Ton of Fuel (Including trans.)	Disposal Cost per Ton of ASH/Scrubber Sludge Disposal Cost per Ton of ASH/Scrubber Sludge	Lime/Limestone Cost per Ton Of:	Start-up Fuel Oil Cost Per	Z

FIG. 26

Operator Related Information: Operator Fee Operator Fee Operator Bonus Home Office Tech Support Warranty Support Number of Shifts Union/non-union Facility Overtime Wage Benefits Facility Equipment Information: Type of Boiler Equipment (1 or 2) Type of Boiler Equipment (1 or 2) Type of Boiler Equipment Date Unit Design / Commercial Operation Date Number of Boilers Flyash Control System: SO2 Control System: Mercury Control System: Mercury Control System Mercury Control System Mercury Control System Mercury Control System Mercury Control System
--

FIG. 27

L ANALYSIS 1 ITUMINOUS 2 ITUMINOUS 3 ITE (TEXAS) 4 ITURAL GAS 5	mate Analysis Bituminous Natural Gas (Gas analysis is entered on fuels page) Ash 5.50% Ash 5.50% 0.00% Carbon 48.30% Argon Argon Argon Argon Argon O.70% 0.00% Hydrogen 3.40% Nitrogen O.70% Hydrogen H.2 0.00% Nitrogen O.10% Hydrogen Sulfide H.2S 0.00% Sulfur 0.85% Methane C.2H6 0.00% Sulfur 0.85% Propane C.2H6 0.00% Propane C.2H6 0.00% Propane C.2H10 0.00% Propane C.2H10 0.00% Propane C.2H10 0.00% Propane C.2H110 0.00%	
		_

Furnace Volume Design Parameters

 Volume - Cu. Ft.:
 20,000

 Surface - Sq. Ft. (EPRS - Up Nose):
 200,000

 NHI/PA:
 1,850,000

0.25%

Carbon Loss

File Name: CoalPerf031601

Project Name: Sample Project

Location: USA

Operator: To Be Determined

4.00%

Escalation **Escalation Factor**

Number of Equipment Sets Per Unit Unit Gross Output	Unit 1 1 373 19-Mar-01	Unit 2 0 0	Unit 3 0 0	Unit 4 0 0	Unit 5 0 0	Unit 6 0 0	Unit 7 0 0	Unit 8 0 0	Total Facility 1 373	
Development Costs Internal Costs Third Party Costs Project Counsel Development Contingency Land Options Pre NTP EPC Cost	\$11,833 \$12,326 \$1,578 \$0 \$986 \$1,972 \$28,694	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$11,832.68 \$12,325.70 \$1,577.69 \$0.00 \$986.06 \$1,972.11 \$28,694.24	
Development Fee Mine Acquisition Costs Site Purchase Development Fee/Mine Acquisitions/Site	\$9,057 \$0 \$12,076 \$21,133	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$9,057.13 \$0.00 \$12,076.17 \$21,133.30	
Plant Boilers Headers Heating Surface Waterfall Steel Firing Equipment Misc. Equipment	\$4,307 \$21,936 \$12,904 \$16,533 \$10,275 \$86,601	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	\$ \$ \$ \$ \$ \$0.00 \$0.00	\$ \$ \$ \$ \$ \$0.00 \$0.00	8 8 8 8 8 80 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	\$0 80 80 \$0 80 80 \$0.00	\$0 \$0 \$0 \$0.00	\$86,600.65	

\$38,324.29 \$7,459.07 \$37,252.60 \$419.07	\$37,252.60 \$1,275.65 \$23,330.45 \$17,662.70 \$0.00 \$3,132.42 \$39,755.15	\$446.53 \$3,500.06 \$20,257.85 \$1,002.37	\$34,773.70	\$49,085.86 \$402,046.65	\$4,021.87	\$11,189.05	\$15,382.48 \$2,760.96 \$1,972.11 \$0.00 \$2,218.63 \$1,725.60 \$24,059.78
\$0 \$0 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0 \$0 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0 \$0 \$0.00	80.00 80.00 80.00 80.00 80.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0 \$0 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	80.00	\$0.00	\$0.00	80.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$0 \$0 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00
\$38,324 \$7,459 \$37,253 \$419.07	\$37,253 \$1,275.65 \$23,330.45 \$17,662.70 \$0.00 \$3,132.42 \$39,755.15	\$446.53 \$3,500.06 \$20,257.85 \$1,002.37	\$34,773.70	\$49,085.86 \$402,046.65	\$4,021.87	\$11,189.05	\$15,382.48 \$2,760.96 \$1,972.11 \$0.00 \$0.00 \$2,218.63 \$1,725.60 \$24,059.78
Turbine Generators BAGHOUSE SCRUBBER ACTIVATED CARBON	SCR Circulating Water System Electrical System & Equipment Fuel Storage & Handling Infrastructure Water Treatment Other	Fixtures Boilers - not plant related Chimneys Cooling Towers Coal Bunkers Land & Buildings	Buildings Other	EPC Target Total EPC Costs	Transmission Fees During Construction	Waste Water Pipeline	Management Sevices During Construction General & Administrative Professional Services Engineering Consultants Utilities Owner's Mobilization G&A Other Owner's Costs Management Sevices Fee Total Owner's Costs

	t 9	93/0		
O&M Mobilization Labor Fee G&A Plant Consumables Equipment Owners G&A	Infrastructure Costs Roads Community Infrastructure Mine Industrial Area Construction Camp Water Management Total Infrastructure Costs	Owner's Contingency Power Plant EPC Costs Transmission Costs Electrical Interconnection Infrastructure Costs Total Owner's Contingency	Financing Fees/Costs Financial Advisor Upfront Fees	Unit Gross Output Total Cost \$/kW Installed
\$6,606.58 \$1,015.64 \$374.70 \$1,356.81 \$5,423.31 \$9,663.35	\$8,263.15 \$1,054.09 \$5,180.74 \$0.00 \$1,176.37	\$40,204.67 \$0.00 \$0.00 \$1,567.44 \$41,772.10	\$6,409.37 \$8,381.48 \$14,790.35	Unit 1 373 \$587,823 \$1,578
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	Unit 2 0 \$0 \$0
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	Unit 3 0 \$0 \$0
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	Unit 4 0 \$0 \$0
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	Unit 5 0 \$0 \$0
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	Unit 6 0 \$0 \$0
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	Unit 7 0 80 80
\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00 \$0.00	\$0.00 \$0.00 \$0.00	Unit 8 0 \$0 \$0
\$8,606.58 \$1,015.64 \$374.70 \$1,356.81 \$5,423.31 \$9,663.35 \$24,440.39	\$8,263.15 \$1,054.09 \$5,180.74 \$0.00 \$1,176.37 \$15,674.35	\$40,204.67 \$0.00 \$0.00 \$1,567.44 \$41,772.10	\$6,409.37 \$8,381.48 \$14,790.85	Total Facility 373 \$587,823 \$197
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088 =

File Name: CoalPerf031601

Project Name: Sample Project

Location: USA

Operator: To Be Determined

Date	Mar-01	Mar-02	Mar-03	r-01 Mar-02 Mar-03 Mar-04 Mar-05 Mar-06 Mar-07 Mar-08 Mar-09 Mar-10	Mar-05	Mar-06	Mar-07	Mar-08	Mar-09	Mar-10	
Hours Of Operation											10 7/202
(@end of operational year)									1	(IO rear
Onerational Year	_	7	m	4	2	9	7	∞	6	10	Average
Waterwall	\$258	\$1.290	\$258	\$258	\$258	\$258	\$258	\$1,290	\$258	\$258	\$464
Heating Surface	\$439	\$2.193	\$439	\$439	\$439	\$439	\$439	\$2,193	\$439	\$439	\$790
Crates	9	9	98	0\$	08	80	80	0\$	80	80	<u>8</u>
Dulvarizare	9	\$1.032	95	98	08	\$516	80	\$1,032	80	\$258	\$310
Air Dro_Hosters	0\$	\$1.032	95	0\$	98	\$516	0\$	\$1,032	80	\$258	\$310
Kual Handling	S	888	95	95	98	888	80	\$177	80	888	862
Hondore	0\$	\$215	08	0\$	80	80	80	\$215	80	\$0	\$43
Stool	9	9	08	80	0\$	\$17	80	0\$	80	80	\$2
Belts/Crushers	9	95	98	80	0\$	\$132	\$0	0\$	80	80	\$13
Casing/Refractory/Ductwork	05	9	80	80	80	\$177	80	0\$	80	8	\$18
Chemical Cleaning	9	98	80	80	80	80	80	055\$	80	\$0	\$55
Gurana marriago	2698	\$5.851	269\$	269\$	269\$	\$2,143	\$697	\$6,489	269\$	\$1,301	\$2,066

FIG. 34

300

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FIG. 35

\$4,100

Total | \$1,795 | \$11,636 | \$1,607 | \$2,364 | \$2,373 | \$3,248 | \$1,877 | \$12,182 | \$1,821 | \$2,101

General Project Information:

File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

Operator's Fees & Service:

Operator Fee	\$0
Legal Services	\$139,805
Construction Services	\$146,709
Testing Services	<u>\$41,424</u>
total Fees & Services	\$327,939
Travel:	\$86,300
Misc. Employee Expenses	\$286,422

File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

Sample Project

Consumerables:

Lubricating Oils:

\$379,977

Hydraulic Oil:

Solvents/Boiler Wash: Cleaning Materials: Welding Supplies:

Nuts/Bolts/Small Mechanical Parts: Fuses/Light Bulb/Small Elect.Parts:

Fittings/Small I&E Parts:

Gas & Oil:

Total Oils and Lubricants \$379,977

Chemicals:

 Boiler Water:
 62.27%
 \$285,603

 Cooling Water:
 36.38%
 \$166,889

 Demin.Regen:
 1.35%
 \$6,194

Fuel Oil: Sanitary: NOx:

Aqueous Ammonia:

Total Chemicals: \$458,686

Gases:

Nitrogen:	\$0
Hydrogen:	\$0
Oxygen/Acetylene:	\$0
NOx, CO, SO2, O2 Span Gas:	\$0

Total Gases: \$0

320

Office Supplies & Services:	
Postage, Overnight Mail, etc:	\$17,104
Freight:	\$0
Telephone:	\$41,038
Utilities:	\$9,263
Dues, Subscriptions:	\$70,914
Advertising:	\$0
Camera/Film/Photo Supplies:	\$0
Copier/Paper/Services:	\$0
Offices Supplies:	\$40,194
General Supplies:	\$0
Audio Visual Equipment	\$0
Portable Radios/Services:	\$0
Drinking Water:	\$0
Safety Supplies:	\$0
Safety/Environmental Insp:	\$0
Instrument Service/Repair:	\$0
Vehicles/Service/Repair:	\$165,284
Insurance Autos/Trucks:	\$0
Lift Trucks/Service:	\$0
Small Tools:	\$0 \$0
Software for Computers:	\$271
Computer Hardware:	\$271 \$0
Building Maintenance:	-
Janitorial Supplies:	\$4,594
Misc. Expenses:	\$0 \$42.240
Uniforms:	\$13,310
	<u>\$0</u>
Total Supplies and Services:	\$361,973
Office Furniture/Rent:	
Office Rent:	
Desk/Chairs/etc:	\$0
Lab/Shop/Cntrl. Rm. Equip:	\$0
Computer Lease:	\$0
ourispater measure.	\$0
	<u> </u>
Total Office Furniture:	\$0



File Name: CoalPerf031601

Project Name: Sample Project

Location: USA

Operator: To Be Determined

Rentals/Lease:

Tools:	\$15,304
Equipment:	• •
Office:	\$261,694
Office Equipment:	\$57,431
Railcar:	\$1,066,871
Lease Auto/Trucks:	\$17,253
Total Rentals:	\$1.418.553

Planned Spare Parts:

Boiler:		\$1,731,001
Turbine:		\$766,330
APC Equipment:		\$149,151
Feedwater System:		\$62,661
BOP:		\$176,591
	Total Spare Parts:	\$2 886 304



File Name: CoalPerf031601

Project Name: Sample Project

Location: USA

Operator: To Be Determined

Proximate Analysis:

FC 33.71%
VM 30.44%
S 0.85%
M 29.55%
A 5.45%
Total 100.00%

HHV (Btu/#) 8,500

Information used in conjunction with the coal classification figure:

BTU:

8504.98

Dry:

33.70%

Project Coal Classification:

3

Coal Type:

Sub-

(Calculated)

Bituminous

OK

Hardgrove Grind. Index:

Ash Mineral Analysis:

0
0
0
0
0
5
0
0
0
5

Total 100.00

Ash Fusion Temperature (Deg. F)

Initial Deformation-Reducing (Input Data) 2189
Initial Deformation-Oxidizing (Input Data) 2239

PARR Formula Relationships:

BASE/ACID RATIO:

(A range of .4-.7 0.7641

coals and results in low ash-fusibility temps)

IRON/CALCIUM RATIO:

(3-0.3 INDICATIVE 0.26

lowers the fusibility temp. of the ash)

IRON/DOLOMITE RATIO:

(Blt. type ash u: 0.21

SILICA/ALUMINA RATIO:

(above 2.8 & b 2.21

	Density	#/Cu Ft (2)		777	7.1.0	0.0744	0.0053	0.0911	0.0425	0.0803	0.1196	0.1582	0.1904	0.2274													
		#Cu Ft (2) #/		1770	2.17	0.0744	0.0053	0.0911					0.1904	0.2274													
	_	Lb Fuel	#2/2/2# #2/2/24		#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01												
	BTU's Per	Per Constit	>	> <	> •	0	61,095	7,097	23,875	22,323	21,669	21,321	21,095	20,966													
	Lb Dry Air	Per Lb Fuel	70//VIQ#	#DIV/01	LO/AIC#	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01		#DIV/01												
Lb Air Required	for Combustion	Per Lb Fuel	•	.	0	0	34.34	6.1	17.27	16.12	15.7	15.49	15.35														
	Lb Constituent	Per Lb Fuel	#DIV/0#	#0/AIQ#	#DIV/01	#DIV/04	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01	#DIV/01		0					59708 7144	426.553952		#0/\\O#		
		Lb/100 Moles	0.00	0.00	0.0	0.00	0.00	000	00.0	00.0	0.00	00.0	0.00	0.00	00.0		Weight of Fuel:								•	-	
alysis:	Molecular	Weight	32.00	0.00	4 .00	28.08	2.02	34.08	16.03	30.05	44.06	58.10	72.10	86.12			Molecular We			0	372.8 32.26	405.06	0	#DIV/04	#DIV/04	#D/AiG#	
sas An		Percent by vol	0.00%	0.00%	0.00%	%00°0	%00 U	%00 0	%00.0 0.00	%0°0	%00.0 0.00																
ıral (8 8	∢	X 2	2	\sim	$\overline{}$	X	$\overline{}$	~	$\overline{\mathcal{L}}$	CSH12	X 190	[}								Ft.)	士		i	¥
Project Natural Gas Analysis:		Natural Gas Analysis:	≪ Oxygen ××		X Carbon Dioxide 3	X Nitrogen X	XX Hydroden	XX Liverage Stilliston	X Indicated X	Ethane X	××	Rutane	S Pentane ×	~	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				Flue Gas Weight:	#gas/Cu. Ft. (gas)	GHI to GT (MMBTU)	Total GHI:	HHV of Fuel (BTU/Cu. Ft.)	Cu. Ft. of Gas Fired / Hr	Lbs. of Gas Fired / Hr	Lbs. of Air / Hr	Total Gas Flow @ U% EA
														ţ	79)/	7	t									

FIG. 42

sion Analysis:	
/alue Conver	
al Gas Heating \	17-Mar-01
Natura	•

¥

¥

Comp. Btu	(68r, 14.70 psia) (60r, 14.70 psia)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	00.0	CH\		(60F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	O	0.00
Comp. Btu	(68F, 14./0 p	0.00	0.00	0.00	0.00	0.00	0.00	00'0	0.00	0.00	0.00	0.00	0.00	0.00	¥	Comp. Btu	(68F, 30"WG)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Btu/CF (1)		•	•	0	•	319.4	547	994.7	1742.6	2480.1	3215.6	3950.2	4661.236	= AHK		Btu/CF (1)	•	0	•	0	0	270	595	896	194.5	2282.6	2968.7	3654	4311.72	LHV =
	Percent by vol	%00·0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			Percent by vol	0.00%	%00'0	%00'0	%00'0	%00'0	%00'0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	ysis:	07	∀	C02	N2		H2S		C2H6	C3H8	C4H10	C5H12	C6H14				ysis:	05	4	C02	N2	72		CH4	C2H6	C3H8	C4H10	C5H12	C6H14	
•	Natural Gas Analysis:	Oxygen	Argon	Carbon Dioxide	Nitroden	Hydrogen	Hydrogen Sulfide	Methane	Ethane	Propane	Butane	Pentane	Hexane	Total			Natural Gas Analysis:	Oxvaen	Argon	Carbon Dioxide	Nitrogen	Hydrogen	Hydrogen Sulfide	Methane	Ethane	Propane	Butane	Pentane	Hexane	Total

HHV/LHV Ratio #DIV/01

Notes: (1) Source Mark's Standard Handbook for Mechanical Engineers Ninth Edition Page 4-29

			Offsets oal Fired	69,	784	001	170	170	120	84	29.
			Cost of Offsets \$/Ton of Coal Fired	\$5.769	\$2.784	\$4.800	\$3.870	\$3.870	\$3.870	\$2.784	\$2.767
50.05%			Required Offsets Tons SO2/Ton Coal Fired	0.038462	0.018560	0.032000	0.025800	0.025800	0.025800	0.018560	0.018545
20.			lbs SO2/MM Btu	2.97	1.45	2.50	2.00	2.00	2.00	1.45	2.17
32.064 31.999 84.063		bs n BTU	SO2 Reduction Efficiency	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2 31	\$/Ton	@ 1.2 lbs SO2/million BTU	lbs SO2/MM Btu	හ හ	1.45	2.5	8	8	7	1.45	2.17
eights 32.064 15.999	ption \$150.00		8 % allowed for Compliance	0.778%	%692'0	0.769%	0.775%	0.775%	0.775%	0.769%	0.511%
Molecular Weights S 32.06 O 15.99	2 Offset Cost Assumption		Average Ash Content In Compliance (S%) (Y/N)*	z	Z	Z	Z	Z	Z	z	z
	8020		Average Ash Content (S%)	7.50%	8.88%	8.25%	9.75%	9.75%	9.75%	9.25%	2.50%
			Average Percent Sulfur (S%)	2.14%	0.93%	1.60%	1.29%	1.29%	1.29%	0.93%	0.92%
			Average BTU/lb Content	12,950	12,800	12,800	12,900	12,900	12,900	12,800	8,500
		Southern Fuels	Mines	Bailey	Colonial	Whitetail	Juliana	Sawmill	Sentenial	Winifrede	
		(S))/1					

FIG. 44

41907.04

	Project Info. Check	fo. Check					
± c = = = = = = = = = = = = = = = = = =		≥ાઽ	Tons Fired 756,000	BBtu 12,929	SO2 (tons) 11,500	S (tons) 5,756	%S 0.76%
Unit 2 Unit 3	2 8,551 3 8,551	2 2	756,000 752,000	12,929 12,861	13,510 12,220	6,762 6,116	0.89% 0.81%
	oject	fo. Check	2,264,000	38,719	37,230	18,534	
:		≥ }	Tons Fired	BBtu 28 956	SO2 (tons)	S (tons)	%S/0
Unit 1	1 8,551 2 8,551	51 51	2,338,000	39,984	13,510	6,762 12,518	0.29%

	tons of Offset Required 10,968 #NUMI #NUMI
	SO2 (1.2#/MMBtu) Allowable Tons 16,493 #NUMI
	SO2 (tons)#SO2/MMBtu 27,481 2.00 #NUMI #NUMI #NUMI #NUMI
	\$02 (tons) 27,481 #NUMI #NUMI
	Sulfur (tons) 13,745 #NUMI #NUMI
tuminous	MMBtu 27,489,039 #NUMI #NUMI #NUMI
Sub- Bitum	Tons Fired 1,617,002 #NUMI #NUMI #NUMI
	%S 0.85% 0.85% 0.85%
ormation:	HHV 8,500 8,500 8,500
alculated Informati	Unit 1 Unit 2 Unit 3
Calc	Project:

FIG. 45

O & M Labor, Purchased Power And Fuel Calculations

GENERAL PROJECT INFORMATION:

File Name: CoalPerf031601 Project Name: Sample Project

Location: USA

Operator: To Be Determined

ANNUAL INFLATION RATE (to present day) 4.0%
BASE DATE 22-Aug-93
ESCALATION DATE 17-Mar-01

Part Year Esc. Factor 1.00

	PROJECT	PROJECT ADJUSTMENT	0 #DIV/01 147 147.44% 154 156.03%
		A.	99.7 99.7
BASE INDEX	location	MODEL	56 56
	Zip Code to be used to identify location		COMPOST ADJUSTMENT MATERIAL LABOR
	Being Updated		
79	/9	7	

Total Installed MW **Number of Units**

1 373 373 1.00

Average Unit Size Multiple Unit Labor Multiplier

CAPACITY (MW):

SYSTEM: POWER BLOCK

LABOR SUMMARY (ADJUSTED FOR LOCATION)

4 Operations and Maintenance 1 Administration NUMBER OF SHIFTS

Exchange Rate

141,321 122,478 113,057 103,638 64,669 120,715 94,847	150,743 379,389 1,420,192	455,997 414,542 373,088 829,085 275,919 224,185	413,879 310,409 241,429 482,859 827,756	413,879 310,409 413,879 827,758	7,039,401 87,990,76 62,850,54
ANNUAL ABOR COST \$141,321 \$122,478 \$113,057 \$103,638 \$64,669 \$120,715 \$94,847	\$150,743 \$379,389 \$1,420,192	ANNUAL COST \$455,997 \$414,542 \$373,088 \$829,085 \$275,919 \$224,185	\$413,879 \$310,409 \$241,429 \$482,889 \$827,756		\$7,039,201 7 \$0 \$87,990.76 8 \$62,850.54 6 Corrected \$8,459,453 102 \$82,936
ANNUAL Wage with Fringes per \$141,321 \$122,478 \$113,057 \$103,638 \$84,669 \$60,357 \$47,424 \$43,112	40% \$75,371 40% \$47,424 Total Admin. Labor	ANNUAL Wage with Fringes per Employee \$113,999 \$103,636 \$93.272 \$103,636 \$66,046 \$56,046	\$103,407 \$77,602 \$60,357 \$60,357 \$103,470	\$103,470 \$77,602 \$103,470 \$103,470	Uncorrected \$8,459,453 \$82,936
FRINGES 40% 40% 40% 40% 40% 40% 40%	40% 40% Total Adn	FRINGES 40% 40% 40% 40% 40% 40%	40% 40% 40% 40%	40% 40% 40%	O C M PLAN ABOR: STAFF: LOYEE:
ANNUAL Wage with O.T. per \$100,944 \$87,485 \$80,755 \$46,192 \$46,192 \$43,112 \$33,874	\$53,837 \$33,874	ANNUAL Wage with O.T. per Employee \$81,428 \$74,025 \$66,623 \$74,025 \$49,271 \$40,033	\$73,907 \$55,430 \$43,112 \$43,112 \$73,907	\$73,907 40% \$103,47 \$55,430 40% \$77,60 \$73,907 40% \$103,47 \$73,907 40% \$103,47	S=1, no=0 0 0 TOTAL DIRECT LABOR: TOTAL PLANT STAFF: COST PER EMPLOYEE:
ANNUAL WAGE Por Employee \$100,944 \$87,485 \$74,025 \$41,993 \$39,193 \$30,785 \$27,995	\$53,837 \$30,795	ANNUAL WAGE \$74,025 \$67,296 \$60,566 \$44,792 \$36,394 \$36,394	\$67,188 \$50,391 \$39,193 \$39,193 \$67,188	\$67,188 \$50,391 \$67,188 \$67,188	Adjusted for local labor requirements yes=1, no=0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
OVERTIME 10.0% 10.0% 40.0% 10.0% 10.0%	10.0% 10.0%	OVERTIME 10% 10% 10% 10% 10%	700 700 700 700 700 700 700 700 700 700	10% 10% 10%%	al labor requii
OVERTIME (YES=1/NO=0) 0 0 0 1 1	0.4	OVERTIME (YES=1/NO=0) 1 1 1 1 1	~~~~		Adjusted for loca
HOURLY WAGE NIA NIA NIA NIA \$20.19 \$18.34 \$14.81	N/A \$14.81	HOURLY WAGE NIA NIA NIA NIA \$21.50 \$17.50	\$32.30 \$24.23 \$18.84 \$18.84 \$32.30	\$32.30 \$24.23 \$32.30 \$32.30	
NUMBER OF EMPLOYEES HOURLY PER POSITION WAGE 1 NIA 1 NIA 1 S20.19 2 \$18.34	M & 160 M	NUMBER OF EMPLOYEES HOURLY PER POSITION WAGE 4 NIA 8 NIA	, 444∞∞ ∞ 8	4 4 4 ® S	
NUMBER OF SHIFT(S) 1 1 1 1 1	N 4	NUMBER OF SHIFT(S) 4 4 4 4 4 4 4	4 4 4 4 4	4444	
UNBER SHIFT 1 1 2 2 3	۳ ۲۵	MBER R SHIFT	FFF00	N	
NAMINISTRATIVE: PLANT MANAGER OPERATIONS MANAGER MAINTENULTS MANAGER PLANT/RESULTS MANAGER OFFICE MANAGER ACCOUNTANT ACCOUNT CLERK	PLANT/RESULTS ENGINEER STOCK CLERK SUB-TOTAL	NI OPERATIONS: PEI SHIFT SUPERVISOR CONTROL ROOM OPERATOR CHEMIST APC EQUIP, OPERATOR ROVER SWEEPERIOPERATOR FRONT-END LOADER	MAINTENANCE: MECHANICS MECHANICS HELPERS TRUCK DRIVERS ASH/APC SLUDGE MOVER APC MECHANICS	ELECTRICIANS ELECTRICIANS HELPERS INSTRUMENT TECH'S APC & C	SUB-TOTAL 80
		t9/Lt	7		

III. REPLACEMENT RESERVE

V. MISC. EXPENSES

WATER & SEWER	Not Including Building Data Base	GPY	CCF	COST	
	WATER:	#REF1	#REF1	#REF1	
	SEWER:	#REF1	#REF1	#REF1	
	TOTAL	TOTAL WATER & SEWER	VER	#REF1 #REF1	(1993\$) (1996\$)
INSURANCE 3	POLICIES 1. ALL RISK POLICY (\$90 MILLION) BUSINESS INTERRUPTION (\$15 MILLION) 3. THIRD PARTY LIABILITY 4. POLLUTION LIABILITY (\$1 MILLION) TOTA	AI.LION) TOTAL INSURANCE	APPRO	APPROXIMATION \$205,035 \$80,406 \$250,000 \$50,000 E \$0	(1993\$)

*t*9/8*t*

PURCHASED POWER HOUSE LOAD HOURS LOAD-KW HOURS PER YEAR OFF LINE % OF HOUSE LOAD PURCHASED POWER COST ELECTRIC COST	5.50% 20,489 916.8 10% 0.06 \$112,706	0.00% 0.00% 0.00% 0.00%	0.00% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00% 0 0 00% 0 0 0 00%	0.00% 0.00% 0.00% 0.00% 0.00%	0.00% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	0.00% 0 000% 0 000% 0 000%
TOTAL ELECTRICITY COST	\$212,706	S	S S	S S	S	\$ \$	98	\$ \$

FIG. 48

†9/6 1	START-UP FUEL APPROXIMATE DAYS OFF LINE NUMBER OF STARTS PER YEAR (AVG. 3 DAY Outage) GROSS HEAT INPUT OF UNIT (MILLION BTU'S PER HOUR) GHI OF START-UP BURNERS-15% of GHI (MILLION BTU'S PER HOUR) AVERAGE LENGTH OF START-UP (HOURS) HEAT INPUT FROM STARTS TOTAL MILLION BTU'S REQUIRED FOR START-UP NATIRAL GAS REQUIRED © \$0.20 per Therm	9.484(3. 3 DAY Outa N BTU'S PER HI (MILLION URS) S START-UP	9.484614489 / Outage) S PER HOUR) LION BTU'S PER HOUR) (T-UP		#NUMI #NUMI #NUMI #NUMI	## # # # # # # # # # # # # # # # # # #	## #NUMI #NUMI #NUMI #NUMI	UNIT 5 0 0 0 0 0 0 0 0 0 0 0 0 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M	UNIT 6 0 0 0 0 8 NUMI #NUMI #NUMI #NUMI	UNIT 7 0 0 0 0 0 0 0 0 4 WUMI #NUMI #NUMI	UNIT 8 0 0 0 0 1 NUM! 4 4 4 NUM! WUM!
- '	Ľ	\$0 Facility C \$1,899,240	\$0.80 per Gallons Gallons Facility D \$3,311,600	\$84,715 105,893	#NOW	WOW#	WON#	#WOW	#NOM	#NCM	#NOW#

FIG. 49

2.603019553

1.75198561

Calculated Value:

	•	156,200	ure-r: 4	aters:										
		900,000	lemperati	зwateг нез										
Flow Rates	Superheater	1,025,000	Boiler Feedwater Temperature-F	Number of Feedwater Heaters										
e.			25%	2906	9414	9715	9866	10194	10395	10575				
ads in th			20%	8227	8395	8584	8757	8917	9062	9202		9460		
artial lo			75%			8177		8427	8543	8653	8757	8857		
te at p			400	8000	8009	8059	8136	8230	8330					
heat ra			OW/	8003	8017	8061	8132	8225	8328	8433	8532	8629		
tions in		ä	WO-OW WO	7993	7995	8032	8095	8181	8275	8376	8472	8566		
t varia	<u>de</u>	<u>.</u> 4	Se	_	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0		
o adjus	the mo	TC2F	EXH Pr		7993	7995	8032	8095	8181	8275	8376	8472	8566	
l nsed t	ction of			7746	7897	7995	8069	8129	8181	8226	8264	8299	8331	
This tab is being used to adjust variations in heat rate at partial loads in the	performance section of the model	%	Change	-3.12%	-1.22%	0.00 %	0.93%	1.68%	2.33%	2.89%	3.36%	3.80%	4.20%	
This tak	perforn	Exhaust	Pressure	0.5	_	1.5	7	2.5	ო	3.5	4	4.5	2	4

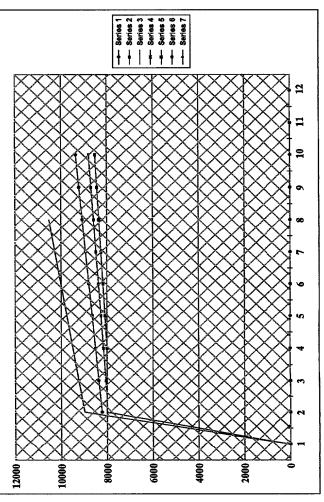


FIG. 50

†9/0\$

	Series 1 Series 2 Series 2 Series 5 Series 6 Series 7	
	1 1 1 1 1 1 1	
		2 2
		*
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		} - k
	99 99 99 99 99 99 99 99 99 99 99 99 99	
12000	<u> </u>	
	25% 9293 9790 10208 10558	0 (c
	26-66-66-66	
30	976 907 822 168 853 176 879 164 904 162 967 162 967 154 1000 156 1000	
	1 5 8 8 8 8 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
	100% 353 7844 315 7918 340 8050 208 8212 376 336 388 841 991	eratui
ngth		Temp
et Ler	7832 78 7832 78 7832 78 8149 83 8149 83 8466 84 8612 86 8757 84 8901 83 7,000	Water
TC2F Last Stage Bucket Length	EXH Pres WOO-OP WOO 1.0 7832 7 1.5 7884 7 2.0 7995 8 2.5 8149 8 3.0 8312 8 4.0 8612 8 4.5 8757 8 5.0 8901 8 Flow Rates 1,025,000	Boiler Feedwater Temperature-F:
TC2F Last Stage	8.1.0 2.1.0 2.2.0 2.0.0 3.0 5.0 6.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7	Boile

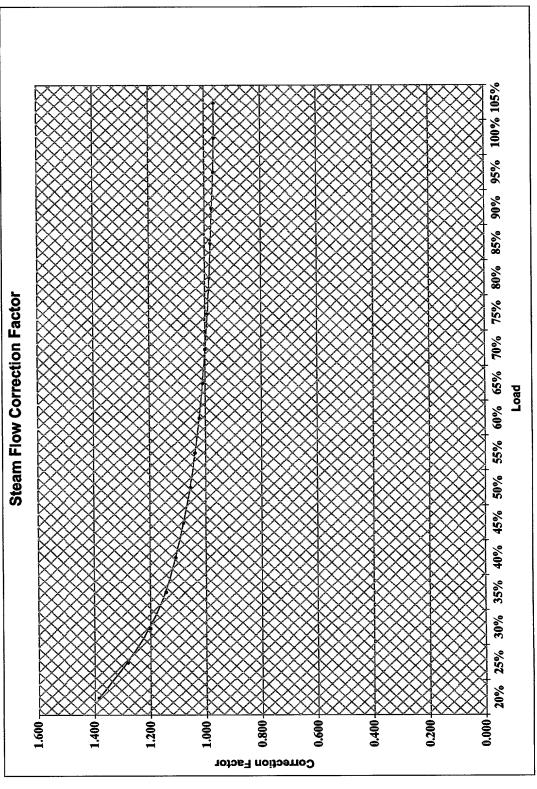
		_				~ !	
	0.61%	25%	10,427	9,964	1.046	1.0575907;	1.05%
	0.56%	20%	10,584	9,932	1.066	.06780975	0 20%
	0.50%	45%	10,782	006'6	1.089	1.11890487 1.10868585 1.09846682 1.0882478 1.07802877 1.06780975 1.05759072	-1 03%
un l	0.44%	40%	11,036	9,868	1.118	1.0882478	%27 6-
	0.39%	35%	11,371	9,836	1.158	1.09846682	-5 24%
	0.33%	30%	11,827	9,805	1.206	1.10868585	/0Va a
460 6	0.28%	25%	12,476	9,773	1.277	1.11890487	
156,200 re-F:	0.22%	20%	13.463	9.742	1.382	1.1291239	
1,025,000 900,000 Boiler Feedwater Temperature-F: Number of Feedwater Heaters:	Heat Rates	Load	Test Heat Rates	calc. uncorrected	Steam correction factor		
†9/IS	,						

			-					
Check	50%	25%	30%	35%	40%	45%	20%	25%
200MW Tandem Compound		9,650					8,523	
350MW Tandem Compound		10,143					8,712	
400MW Tandem Compound		10,225					8,767	
600MW Tandem Compound		9,994					8,500	

FIG. 51

1.17%	105%	9,823	10,300	0.954	0.95540047	0.18%	105%	8,010	906'2	7,911	7,848
1.11%	100%	9,844	10,266	0.959	0.9656195	0.70%	100%	8,036	7,955	7,964	7,872
1.06%	95%	9,870	10,231	0.965	.01671462 1.0064956 0.99627657 0.98605755 0.97583852 0.9656195	1.14%	%26				
1.00%	%06	9,902	10,197	0.971	0.98605755	1.52%	%06				
0.94%	85%	9,941	10,163	0.978	0.99627657	1.82%	85%				
0.89%	%08	9,988	10,130	0.986	1.0064956	2.04%	%08				
0.83%	75%	10,045	10,096	0.995	1.01671462	2.14%	75%	8,133	8,189	8,210	8,009
0.78%	%02	10.114	10,063	1.005	1.02693365	2.13%	%02				
0.72%	65%	10.198	10,030	1.017	1.0473717 1.03715267 1.02693365	1.97%	65%				
0.67%	%09	10.301	266.6	1.030	1.0473717	1.62%	%09				
		 -	1	1	† •	9/	┌ ' 7'	5	1	1	1

FIG. 52



†9/ES

FIG. 53

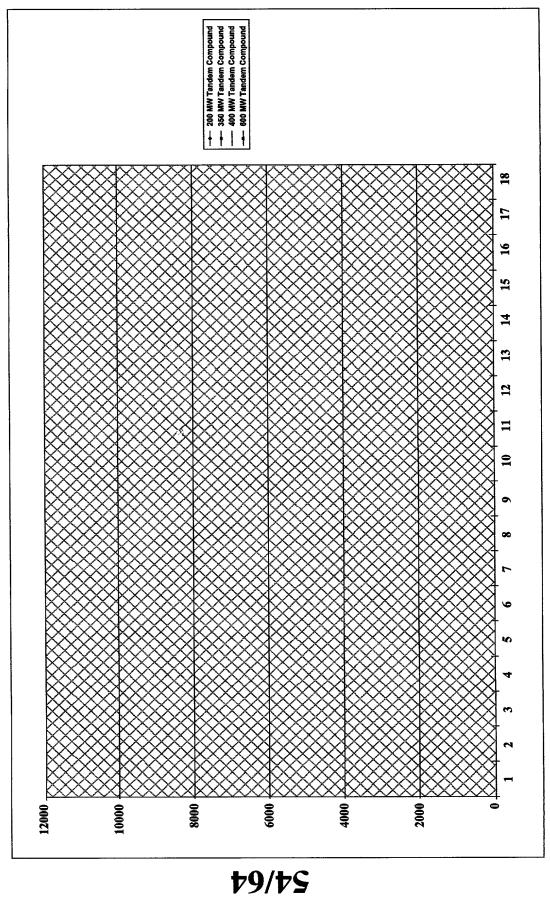


FIG. 54

E .	File Name:	_	IE Dispatch Information:	For Reference Only	ence Only								
Project Name:	лаше:	Sample Project	Average Capacity:	373 2004	2002	2003	2004	2005	2006	2007	2008	2009	
-	, 1	Vall	Capacity Factor	83.70%	85.00%	71.30%	69.60%	67.50%	68.10%	67.10%	68.00%	67.90%	ı
	rocation.		Calculated Capacity Factor	89.53%	77.10%	87.78%	88.03%	87.78%	87.78%	87.78%	77.34%	87.78%	1
		7 · · ·	Availability	%00'06	%00'06	%00'06	%00'06	%00'06	%00.06	%0°06	%0°0°	90.00%	
<u>a</u>	rator	Operator: To be Determined	Average Load	93.00%	94.44%	979.22%	77.33%	75.00%	75.67%	74.56%	75.56%	75.44%	
			Hours in Years	8,760	8,760	8,784	8,760	8,760	8,760	8,760	8,760 1,001	8,760 1,80 1,00 1,00 1,00 1,00 1,00 1,00 1,0	
			Hours Dispatched	7,884	7,884	7,906	7,884	7,884	7,884	7,884	7,884	7,884	
				2,731,405	2,773,829	2,33,127	2,721,276	2,202,746	2,222,326	2,195,692	2,219,003	009,612,2	ı
			Calculated Annual Output	2,921,796	2,515,870	2,864,503	2,872,651	2,864,503	2,864,503	2,864,503	2,524,019	2,864,503	ļ
		-	Major Outages		-						-		
							,		9000	.000	0000	9000	
			Hours Available for Dispatched	2007	2002	2003	2007	202	2002	747	744	744	
			January	4	<u>\$</u> {	4 (‡ {	‡ [‡ {	į	ŧ	£ 2	
			February	672	2/9	2/9	7/0	3/0	7 OF C	240	240	240	
			March	3 6	250	7 7	2 2 2	25.5	2 2	220	720	720	
				2 2	744	744	744	744	3 3	<u> </u>	744	4.	
			may	į	Į (ţ ;	25	25.	720	720	720	720	
				24.	744	3 7	3 7	745	<u> </u>	<u> </u>	<u>*</u>	4	
1			VIIIO Parione	744	744	1	744	744	447	4	744	447	
ל <u>י</u>			Sentember	202	720	720	720	22	720	120	720	720	
9			October	744	ic	4	4	744	744	447	0	44	
/			November	22	456	720	720	720	720	720	456	720	
S			December	744	744	447	744	744	44	4	744	4	
2			Total	8228	7248	8228	8280	8256	8256	8256	8258	8256	
			Hours Dispatched	2001	2002	2003	2004	2005	2006	2007	2008	2009	
			January	¥	692	692	692	695	692	692	692	692	
			February	672	625	625	647	625	625	625	74	625	
			March	240	226	226	226	226	226	526	226	226	
			April	720	677	677	677	677	219	677	677	1/9	
			May		707	707	707	707	<u>7</u> 0/	2 3	/o/)	
			oune - F	27.2	684 444	1 2 2	4 4 4	5 F	7.4	144	714	417	
			Andret		714	7.7	7 4	<u> </u>	7.	74	74	714	
			September		684	684		684	684	684	684	684	
			October	4	•	707	707	707	707	707	0	707	
			November	720	429	677	229	429	<i>6</i> 77	229	429	677	
				4	669	669	669	669	669	66	6 6 8	669	
			Total Hours Dispatched	8258	6851	6851	7828	7806	908/	7806	68/3	900/	
				100.00%	94.52%	94.54%	94.54%	94.54%	94.54%	94.54%	94.01%	94.34%	
			Percentage of Annual Hours	94.25%	78.20%	89.10%	89.1%	89.10%	89.10%	89.10%	/8.Z4%	88.10%	
			Average Annual Load	95.00%	98.58%	98.51%	98.51%	98.51%	98.51%	98.51%	98.58%	98.51%	
			,	F									

†9/SS

67.60% 68.00% 67.10% 67.10% 67.30% 67.30% 67.40%<	98.51%	98.58%	98.51%	98.51%	98.51%	98.51%	98.51%	98.58%	98.51%	98.51%	86	98.51% 98.
66.80% 67.10% 66.80% 67.20% 67.40% 87.78% 68.00% 66.80% 67.20% 67.20% 67.40% 87.78% 88.03% 87.78% 87.78% 77.34% 90.00% 90.00% 90.00% 90.00% 90.00% 74.00% 7.846 87.78% 87.784 87.80 8.784 8.760 8.760 8.784 87.80 7.306 7.884 7.884 7.884 7.884 7.306 7.884 7.884 7.884 7.884 7.306 7.884 7.884 7.884 7.884 7.306 7.884 7.884 7.884 7.884 7.206 7.884 7.884 7.884 7.884 7.44 7.44 7.44 7.44 7.44 7.20 7.20 8.72 67.20 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.20 <t< td=""><td>94.54% 89.10%</td><td>94.51% 78.24%</td><td>94.54% 89.10%</td><td>94.54% 89.10%</td><td>94.54% 89.10%</td><td>94.54% 89.11%</td><td>94.54% 89.10%</td><td>94.52% 78.20%</td><td></td><td>94.54% 89.10%</td><td>94.54% 94.54% 89.11% 89.10%</td><td>\0 \0</td></t<>	94.54% 89.10%	94.51% 78.24%	94.54% 89.10%	94.54% 89.10%	94.54% 89.10%	94.54% 89.11%	94.54% 89.10%	94.52% 78.20%		94.54% 89.10%	94.54% 94.54% 89.11% 89.10%	\0 \0
66 80% 67 2019 6 2011 6 2012 6 2013	7806	6873	7806	7806	688 7806	699 7828	7806	6851		699 7806		699 7828
2013 2019 6.011 6.010 90.00%	677	429	677	677	677	229	229	429		677		229
66 6076 £719 £202 £237 £193,483 £2019 £202 £237 £193,483 £2019 £202 £237 £193,483 £2019 £2019 £202 £237 £193,483 £2019 £202 £237 £193,483 £202 £237 £193,483 £2019 £202 £237 £193,483 £2019 £202 £237 £193,483 £240,193 <th< td=""><td>707</td><td>ţ</td><td>102 204</td><td>*00 207</td><td>100 101</td><td>404 707</td><td>554 707</td><td>604</td><td></td><td>707</td><td></td><td>684</td></th<>	707	ţ	102 204	*00 207	100 101	404 707	554 707	6 04		707		684
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66.80% 67.20% 67.20% 67.40% 66.80% 67.20% 67.20% 67.40% 87.78% 87.78% 87.78% 87.78% 77.34% 90.00% 90.00% 90.00% 90.00% 90.00% 90.00% 74.00% 74.56% 74.00% 74.67% 74.78% 77.34% 7.906 7.884 7.884 7.884 8.760 8.784 8.784 8.760 8.784 8.760 8.784 8.760 7.906 7.884 7.906 7.884 7.984 7.884 7.906 7.884 7.884 7.986 7.884 7.884 7.906 7.884 7.884 7.884 7.884 7.884 7.906 7.884 7.884 7.884 7.884 7.884 7.906 7.884 7.884 7.884 7.884 7.884 7.44 7.44 7.44 7.44 7.44 7.44 720 720 720 720	714	714	714	714	714	714	714	714	•		714	714 714
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66.60% 67.20% 77.34% 77.44	677	229	<i>6</i> 77	677	229	22.9	<i>677</i>	7	67		229	229 229
66.60% 67.20% 87.76% 87.76% 87.76% 87.76% 87.76% 87.76% 87.76% 90.00%<	226	226	226	226	226	226	226	· 60	8		226	226 226
66.00% 67.20% 77.34% 77.34% 77.34% 77.34% 77.34% 77.34% 77.34% 77.34% 77.34% 77.34% 77.34% 77.34% 77.34% 77.34% 77.34% 77.34% 77.34% 77.34% 77.34% 77.84 77.84 77.84 77.84 77.84 77.84 77.84 77.84 77.84 77.84 77.84 77.84 77.84 77.84 77.84 77.84 77.84 77.84 77.44 744	625	647	625	625	625	647	625		625		625	647 625
66.60% 67.20% 67.30% 67.40% 67.40% 67.40% 67.40% 67.40% 67.40% 67.40% 67.40% 67.40% 67.40% 67.40% 67.40% 67.40% 67.40% 67.40% 67.40% 67.40% 67.40% 77.34% 87.78% 87.78% 77.34% 87.78% 77.34% 87.78% 77.34% 77.34% 77.34% 77.34% 77.884 77.884 77.884 87.60 87.760 87.760 87.760 87.760 87.760 87.884 77.884 87.60 87.884 87.60 87.760 87.760 87.760 87.760 87.760 87.760 87.760 87.884 87.60 87.884 87.60 87.760 87.884 87.60 87.760 87.884 87.60 87.760 87.884 87.60 87.760 87.884 87.60 87.884 87.60 87.884 87.60 87.884 87.60 87.884 87.60 87.884 87.60 87.884 87.60 87.884 87.60 87.884 87.60	2021	2020 692	2019	2018 692	2017 692	2016 692	2002		2014		2013	201 <u>2</u> 201 <u>3</u> 692
66.60% 67.20% 67.30% 67.40% 66.60% 67.10% 67.20% 67.30% 67.40% 87.78% 88.03% 87.78% 87.78% 87.78% 67.40% 90.00% 90.00% 90.00% 90.00% 90.00% 90.00% 74.00% 74.56% 74.00% 74.67% 74.78% 74.89% 8,784 8,760 8,784 8,760 8,784 8,760 1,906 7,884 7,884 7,884 8,760 8,784 0 2,179,331 2,189,693 2,173,376 2,192,956 2,202,237 2,199,483 0 2,179,331 2,189,693 2,173,376 2,192,956 2,202,237 2,199,483 0 2,564,503 2,872,651 2,864,503 2,864,503 2,524,019 1 744 744 744 744 744 744 1 720 2,864,503 2,864,503 2,864,503 2,864,503 2,524,019 2 864,503	8256	7272	744 8256	744 8256	744 8256	744 8280	744 8256		7248	744 744 82586 724		744 82586
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66.60% 67.10% 67.10% 67.20% 66.60% 67.20% 67.30% 67.40% 87.78% 88.03% 87.78% 87.78% 87.73% 90.00% 90.00% 90.00% 90.00% 90.00% 74.00% 74.56% 74.00% 74.60% 87.84 8.760 8,786 7,884 7,884 7,896 7,884 7,906 7,884 7,896 7,884 7,906 7,884 7,896 7,884 7,906 7,884 7,906 7,884 7,906 7,884 7,906 7,884 7,906 7,884 7,906 7,884 7,906 7,884 7,906 7,884 7,84 7,84,503 2,864,503 2,864,503 2,524,019 1 7,44 7,44 7,44 7,44 7,44 744 744 7,44 7,44 7,44 7,44 240 240 240 240 240 240<	720	720	720	720	720	720	720	720	• •		720	720 720
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66.60% 67.10% 66.60% 67.20% 67.30% 67.30% 87.38% 87.79% 77.884 7.884 7.906 0 2,179,331 2,189,693 2,173,376 2,192,956 2,202,237 30 2,864,503 2,872,651 2,864,503 2,864,503 2,864,503 2,872,651 2,864,503 2,864,503 2,864,503		-							-	•		
66.60% 67.10% 66.60% 67.20% 67.30% 67.30% 67.30% 67.20% 67.30% 7.884 7.884 7.884 7.884 7.906 7.79.331 2.189.693 2.173.376 2.192.956 2.202.237		2,524,019	2,864,503	2,864,503	2,864,503	2,872,651	2,864,503	870	2,515	64	1 2,864,503 2	3 2,872,651 2,864,503 2
66.60% 67.10% 66.60% 67.20% 67.30% 87.78% 88.03% 87.78% 87.78% 87.78% 87.78% 87.78% 87.78% 87.78% 74.00% 74.56% 74.00% 74.60% 87.60 8,760 8,760 8,764 8,760 8,764		2,199,483	2,202,237	7,864 2,192,956	7,884 2,173,376	7,884 2,189,693	7,906 2.179,331	4 5 0 5	7,88 2.206.	7,884 7,88 2.186.430 2.206.	~	7,884 0 2.186.430 2
66.60% 67.10% 66.60% 67.20% 67.30% 87.78% 88.03% 87.78% 87.78% 87.78% 87.78% 87.78% 87.78% 87.78% 87.78% 87.78% 87.78% 87.78% 87.78% 87.78% 87.78% 87.78% 87.78% 87.78% 87.78% 87.8%		8,760	8,784	8,760	8,760	8,760	8,784	요 :	8,7		8,760	8,760 8,760
66.60% 67.10% 66.60% 67.20% 67.30% 87.78% 88.03% 87.78% 87.78% 87.78% 90.00% 90.00% 90.00% 90.00%		74.89%	74.78%	74.67%	74.00%	74.56%	74.00%	1%	75.1		74.44%	75.44% 74.44%
66.60% 67.10% 68.60% 67.20% 67.30% 87.78% 88.03% 87.78% 87.78% 87.78%		%00'06	%00'06	%00'06	%00'06	%00.06	%00.06	%00	99.		%00.06	%00.06 %00.06
66.60% 67.10% 66.60% 67.20% 67.30%		77.34%	87.78%	87.78%	87.78%	88.03%	87.78%	%	77.1		87.78%	88.03% 87.78%
		67.40%	67.30%	67.20%	%09.99 98.60%	67.10%	66.60%	<u> </u>	67.E		<u>67.00%</u>	%00'Z9 %06'Z9

†9/9\$

Hait 1 Dispatch Information:	January-01	February-01	March-01	April-01	May-01	June-01	July-01
Hours Available for Dispatch	744	672	240	720	447	720	744
Available for the particular of Louise of Loui	100 006	400 00%	100 00%	100.00%	100.00%	100.00%	100.00%
Percentage of nours Disparched	00.00 00.00	0E.00%	05.00% 05.00%	95.00%	%00 56	95.00%	95.00%
euc Cue	%20.00%	93.00%	90.00	2000	40 F OF	10F 8E	105 26
Fuel Fired tons/hr	195.86	195.86	195.86	195.80	182.00	99.00	00.00
	145.718	131,616	47,006	141,018	145,718	141,018	145,718
Total Ash /100% up). tons	8.015	7.239	2,585	7,756	8,015	7,756	8,015
Total I imestone (100% un). tons	2,160	1.951	697	2,090	2,160	2,090	2,160
Total Fivesh/Limestone Load- tons	10,174	9,189	3,282	9,864	10,174	9,846	10,174
Heat Rate Information:	•					,	
Gross Generation	263.301.377	237,820,598	84,935,928	254,807,784	263,301,377	254,807,784	263,301,377
Ilbit 1 Gross Heat Rate. BTIJ/kWh:	9.408	9.408	9,408	9,408	9,408	9,408	9,408
Not Constitute of the Constitu	248 849 804	224 740 465	80.264.452	240.793.356	248.819.801	240,793,356	248,819,801
Diant Not Heat Rate. BTU/kWh:	9.956	9.956	9,956	9,956	9,956	9,956	9,956
			00 1	CO IIII A	May 02	luna-02	CO-vlul
Unit 1 Dispatch Information:	January-02	repruary-02	March-02	April-02	May-VE	40-DINO	
Hours Available for Dispatch	744	672	240	720	44	720	44
Percentage of Hours Dispatched	93.00%	93.00%	94.00%	94.00%	92.00%	95.00%	%00 '96
Percentage of the particular o	%UU & O	%00 86	%00.26	%00.86	98.00%	%00 '66	100.00%
Average Disparcing Load	20.00%	202 48	200.27	202.48	202.48	204.89	206.90
	140.097	126 539	45.180	137.035	143.110	140,006	147,777
and Jan /400/ 40 loteT	7 705	960	2.485	7.537	7.871	7,700	8,128
2004 (a.: /000) med income income	2 222	2016	712	2,160	2,232	2,184	2,281
	4,404	6,016	2 407	0 607	10 104	9.884	10.409
Total Flyash/Limestone Load- tons	0,00	0/6'0	9.19	5			•
Heat Rate Information:					7000	2010 010	020 020 930
Gross Generation	252,603,026	228,157,572	81,520,610	247,083,085	258,035,349	25,459,700	076,270,002
Unit 1 Gross Heat Rate- BTU/kWh:	9,428	9,428	9,422	9,428	9,428	9,435	9,442
Net Generation	238.709.860	215,608,906	77,036,976	233,493,515	243,843,405	238,385,422	251,438,957
Plant Net Heat Rate- BTU/kWh:	9,977	9,977	9,970	9,977	9,977	9,984	9,991

†9/LS

FIG. 57

Unit 1 Gross Capacity:

373

2001 89.53% 2,350.29 1,617,002	88,935 23,964 112,899 2,921,795,923 9,408 2,761,097,147 9,956	2002 77.10% 2,440.77 1,395,919 76,776 21,885 98,661	2,515,870,136 9,432 2,377,497,279 9,981
Gross Capacity Factor: Fuel Fired tons/hr	Total Ash (100% up)- tons Total Limestone- tons Total Flyash/Limestone Load- tons Gross Generation Unit 1 Gross Heat Rate- BTU/kWh: Net Generation Plant Net Heat Rate- BTU/kWh:	Gross Capacity Factor: Fuel Fired tons/hr tons Total Ash (100% up)- tons Total Limestone- tons Total Flyash/Limestone Load- tons	Gross Generation Unit 1 Gross Heat Rate- BTU/kWh: Net Generation Plant Net Heat Rate- BTU/kWh:
December-01 744 100.00% 95.00% 195.86 145,718	8,015 2,160 10,174 263,301,377 9,408 248,819,801 9,956	December-02 744 94.00% 98.00% 202.48 141,603 7,788 2,232 10,021	255,319,188 9,428 241,276,632 9,977
November-01 720 100.00% 95.00% 195.86 141,018	7,756 2,090 9,846 254,807,784 9,408 240,793,356 9,956	November-02 456 94.00% 98.00% 202.48 86,789 4,773 1,368 6,142	156,485,954 9,428 147,879,226 9,977
October-01 744 100.00% 95.00% 195.86 145,718	8,015 2,160 10,174 263,301,377 9,408 248,819,801 9,956	October-02 0 95.00% 98.00% 202.48 0 0	0 0 10//IQ# 0 10//IQ#
September-01 720 100.00% 95.00% 195.86 141,018	7,756 2,090 9,846 254,807,784 9,408 240,793,356 9,956	September-02 720 95.00% 99.00% 140,006 7,700 2,184 9,884	252,259,706 9,435 238,385,422 9,934
August-01 744 100.00% 95.00% 195.86	7,756 2,090 9,846 254,807,784 9,408 240,793,356 9,956	August-02 744 96.00% 100.00% 206.90 147,777 8,128 2,281 10,409	266,072,970 9,442 251,438,957 9,991

FIG. 58

744 672 240 720 744 720 93.00% 93.00% 94.00% 95.00% 95.00% 95.00% 98.00% 98.00% 98.00% 98.00% 99.00% 99.00% 98.00% 98.00% 98.00% 98.00% 99.00% 99.00% 140,097 126,539 45,180 137,035 143,110 140,006 1,705 6,960 2,485 7,537 7,811 7,700 1,2232 2,016 712 2,160 2,232 2,184 9,938 8,976 3,197 9,697 10,104 9,884 9,428 9,428 9,428 9,428 9,438 9,428 9,428 9,428 9,428 9,438 9,977 9,977 9,977 9,977 9,977 9,978 1,28,709,860 215,608,906 77,036,976 233,493,515 243,843,405 238,385,422 1,300% 98.00% 99.00% 99.00% 99.00% 99.00%	Unit 1 Dispatch Information:	January-03	February-03	March-03	April-03	May-03	June-03	co-kinc
93.00% 93.00% 94.00% 94.00% 95.00% 95.00% 98.00% 98.00% 98.00% 98.00% 99.00% 99.00% 202.48 202.48 202.48 202.48 204.89 140,097 126,539 45,180 137,035 143,110 140,006 7,705 6,960 2,485 7,537 7,811 7,700 2,232 2,016 712 2,160 2,232 2,184 2,232 2,016 712 2,160 2,232 2,184 9,938 8,976 3,197 9,697 10,104 9,884 2,222 2,016 77,236,976 234,228 9,428 <td< td=""><td>United Available for Dienatch</td><td>744</td><td>672</td><td>240</td><td>720</td><td>744</td><td>720</td><td>744</td></td<>	United Available for Dienatch	744	672	240	720	744	720	744
98.00% 98.00% 98.00% 98.00% 98.00% 98.00% 98.00% 98.00% 202.48 202.48 202.48 202.48 140,097 126,539 45,180 137,035 143,110 140,006 7,12 2,160 2,232 2,016 7,12 2,160 2,232 2,016 7,12 2,160 2,232 2,016 7,12 2,160 2,232 2,184 9,884 9,428 9,428 9,428 9,428 9,428 9,428 9,428 9,428 9,428 9,428 9,428 9,434 0,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,006 7,006	Hours Available to Elspace	č	700 CO	94 NO%	%00°76	95.00%	95.00%	%00 .96
98.00% 98.00% 97.00% 97.00% 90.00% 90.00% 98.00% 98.00% 98.00% 97.00% 90	Percentage of Hours Disparched	ŝ	97.00	2001	/000 00	7000 00	%00 00	400 00%
Fuel Fired tons/hr 202.48 202.48 200.27 202.48 202.48 204.89 tons 140,097 126,539 45,180 137,035 143,110 140,006 Total Limestone (100% up)- tons 7,705 6,960 2,485 7,537 7,871 7,700 Total Elyash/Limestone Load- tons 22,232 2,016 7,12 2,160 2,232 2,184 Total Limestone (100% up)- tons 7,705 6,960 2,232 9,485 2,184 Total Limestone (100% up)- tons 7,705 6,960 2,232 9,428 9,507 9,977 9,900 95.00% Percentage of Hours Available for Dispatched Load 98.00% 98.00% 99.00% 98.00% 98.00% 98.00% 99.00% 97.00% 98.00% 98.00% 98.00% 97.00% 98.00% 98.00% 97.00% 98.00% 97.00% 98.00% 98.00% 97.00% 98.00% 98.00% 97.00% 98.00% 98.00% 97.00% 98.00% 97.00% 98.00% 98.00% 99.00% 7,705 7,207 7,207 7,207 7,305 7,207 7,305	Average Dispatched Load	86	%00.86 0.00%	%00'/6	%00'%	%0°06	99'00'6	9/00:00
Total Ash (100% up)- tons 7,705 6,960 2,485 7,537 7,871 7,700 7,705 6,960 2,485 7,537 7,871 7,700 7,700 7,705 6,960 2,485 7,537 7,871 7,700 7,700 7,705 6,960 2,485 7,537 7,871 7,700 7,700 7,700 2,232 2,104 7,700 2,232 2,104 7,700 2,232 2,104 7,700 2,232 2,104 7,700 2,232 2,104 7,000 2,232 2,104 7,000 2,232 2,104 9,884 9,428 9,439,515 1,43,110 1,40,006 1,40,0	Enal Fired tone/hr	200	202.48	200.27	202.48	202.48	204.89	206.90
Total Ash (100% up)- tons 7,705 6,960 2,485 7,537 7,871 7,700 Total Limestone (100% up)- tons 2,232 2,016 712 2,160 2,232 2,184 Total Limestone Load- tons 9,938 8,976 3,197 9,697 10,104 9,884 Total Elyash/Limestone Load- tons 2,232 2,016 712 2,160 2,232 2,184 Total Elyash/Limestone Load- tons 9,938 8,976 3,495 9,697 10,104 9,884 Heat Rate Information: 25,603,026 228,157,572 81,520,610 247,083,085 258,035,349 252,259,706 3,428 9,428 9,428 9,428 9,428 9,428 9,428 9,428 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,000 7,036,976 2,406 95.00% 95.00% 95.00% Average Dispatched Load 98,00% 93.00% 97.00% 96.00% 96.00% 96.00% 96.00% 7,708 2,485 7,537 7,577 7,770 7,700 7,208 7,537 7,537 7,571 7,700 7,700 7,208 7,537 7,537 7,871 7,700 7,700 7,208 7,537 7,537 7,871 7,700 7,208 7,508 9,697 7,537 7,871 7,700 7,208 7,508 9,697 7,537 7,871 7,700 7,208 7,508 9,697 7,537 7,577 7,871 7,700 7,208 7,508 7,537 7,537 7,871 7,700 7,208 7,508 7,537 7,577 7,871 7,700 7,208 9,697 8	•	140	126.539	45.180	137,035	143,110	140,006	147,777
Total Limestone Load- (100% up)- tons 2,232	SHOT (411 /8007) HTV 177-E		969	2.485	7.537	7,871	7,700	8,128
Total Limestone (100% up)- totals	I otal Asn (100% up)- tolis	- 2	0,0 0,0 0,0	713	2 160	2,232	2,184	2.281
Heat Rate Information:	Total Limestone (100% up)- tons	Ž,	2,010	71.7	9 6	1000	7000	40 400
Heat Rate Information: 25,603,026 228,157,572 81,520,610 247,083,085 258,035,349 252,259,706 25,603 26,228 3,428 3,428 3,428 3,428 3,428 3,428 3,428 3,428 3,428 3,428 3,438 3,436 238,385,422 3,977 3,493,515 243,843,405 252,259,706 222,259,706 222,259,706 222,259,706 222,259,706 222,259,706 222,259,706 222,259,706 222,259,706 222,259,706 222,259,706 222,259,706 222,259,706 222,259,706 222,259,706 222,259,706 222,309,224 77,036,976 233,493,515 243,843,405 238,385,422 222,492 222,392,224 222,392,32	Total Flyash/Limestone Load- tons	6	8,976	3,197	769'6	10,104	4,00,0	0 t'0
252,603,026 228,157,572 81,520,610 247,083,085 258,035,349 252,259,706 39,428 9,428 9,428 9,435 9,428 9,428 9,428 9,435 238,709,860 215,608,906 77,036,976 233,493,515 243,843,405 238,385,422 238,709,860 215,608,906 77,036,977 9,977 9,984 9,977 9,984 9,984 9,977 9,984 9,977 9,984 9,977 9,984 9,977 9,984 9,984 9,984 9,997 1,00% 98,00% 99,00% 98,00% 99,00% 98,00% 98,00% 99,00% 99,00% 98,00% 99,00% 99,00% 99,00% 92,024 7,537 7,814 7,700 7,700	Heat Rate Information:							
Unit 1 Gross Heat Rate- BTU/kWh: 9,428 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,984 238,385,422 3,984 238,385,422 3,984 3,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,00%<	Gross Generation		228.157.572	81.520,610	247,083,085	258,035,349	252,259,706	266,072,970
Duit 1 Gross Heat Rate- BTU/kWh; 3,725 3,936,422 3,937 49,371 5,937 9,977 9,977 9,984		_	9.428	9 422	9.428	9.428	9,435	9,442
Plant Net Heat Rate- BTU/kWh: 9,977 9,977 9,970 215,695,719 2,977 9,970 9,00% 9,00	Unit 1 Gross Heat Kate- B1 U/KWII:		0,000		000 400 E4E	342 642 ANE	228 285 422	251 438 957
Digastic ETU/kWh: 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,977 9,984	Net Generation		215,608,906	77,036,976	233,493,010	Z45,045,405	430,000,144	2000
Unit 1 Dispatch Information: January-04 February-04 March-04 April-04 May-04 June-04 Hours Available for Dispatched 93.00% 93.00% 94.00% 94.00% 95.00% 95.00% Percentage of Hours Dispatched Load 98.00% 93.00% 94.00% 94.00% 95.00% 95.00% Average Dispatched Load 98.00% 98.00% 94.00% 96.00% 98.00% 99.00% Average Dispatched Load 98.00% 98.00% 97.00% 96.00% 98.00% 99.00% Fuel Fired tons/hr 202.48 202.28 25.18 7,70 7,70 Total Limestone (100% up)- tons 2,232 2,088 7/12 2,160 2,232 2,184 Total Limestone Load- tons 9,938 9,297 3,197 9,697 10,104 9,884 Heat Rate Information: Gross Generation 25,603,026 23,493,515 243,843,405 238,432 Net Generation 238,709,860 223,309,224 77,036,976 233,493,515 243,843,405 238,432 <td></td> <td></td> <td>9,977</td> <td>9,970</td> <td>9,977</td> <td>9,977</td> <td>9,984</td> <td>188'8</td>			9,977	9,970	9,977	9,977	9,984	188'8
Hours Available for Dispatch Hours Dispatched Load 93.00% 98.00% 94.00% 94.00% 95.00% 95.00% 95.00% 96.00%		1	February-04	March-04	April-04	May-04	June-04	July-04
Percentage of Hours Dispatched 93.00% 93.00% 94.00% 94.00% 95.00% 95.00% 95.00% Average Dispatched Load 98.00% 98.00% 97.00% 98.00% 98.00% 99.00% 99.00% Professional Load 140,097 131,058 45,180 137,035 143,110 140,006 140,006 140,009 17,705 7,208 2,485 7,537 7,871 7,700 17,700 17,705 7,208 7,485 7,537 7,871 7,700 17,700 17,208 1,485 1,537 1,871 10,104 9,884 100% up)- tons 2,232 2,088 712 2,160 2,232 2,184 10,100% up)- tons 9,938 9,297 3,197 9,697 10,104 9,884 10,104 10,104 10,104 9,884 10,104 10,104 9,884 10,104 10,104 9,884 10,104 10,			AGR	240	720	744	720	744
93.00% 93.00% 98.00% 98.00% 98.00% 98.00% 98.00% 98.00% 98.00% 99.00% 202.48 202.48 202.48 202.48 202.48 203.48 140,097 7,705 7,208 7,208 7,208 7,208 7,203 2,309 9,297 3,197 9,697 10,104 9,884 9,428 9,435 238,709,860 223,309,224 77,036,976 233,493,515 243,843,405 238,385,422	ı		200	7000 70	%UU 70	95.00%	%00.26	%00.96
98.00% 98.00% 97.00% 98.00% 96.00% 96.00% 99.00% 202.48 202.48 202.48 204.89 202.48 202.48 204.89 202.48 202.48 204.89 202.48 202.48 204.89 202.48 202.48 204.89 202.48 203.2097 131,058 45,180 137,035 143,110 140,006 7,705 7,208 712 2,160 2,232 2,184 2,232 2,088 712 2,160 2,232 2,184 9,884 9,938 9,297 3,197 9,697 10,104 9,884 9,884 9,428 9,428 9,428 9,428 9,428 9,428 9,435 238,709,860 223,309,224 77,036,976 233,493,515 243,843,405 238,385,422	Percentage of Hours Dispatched		82.00%	04.00.40	0/00'to	2000	20000	400 00%
202.48 202.48 204.89 140,097 131,058 45,180 137,035 143,110 140,006 7,705 7,208 2,485 7,537 7,871 7,700 2,232 2,088 712 2,160 2,232 2,184 9,938 9,297 3,197 9,697 10,104 9,884 252,603,026 236,306,057 81,520,610 247,083,085 258,035,349 252,259,706 9,428 9,428 9,428 9,428 9,428 9,435 238,709,860 223,309,224 77,036,976 233,493,515 243,843,405 238,385,422	Average Dispatched Load		%00 ['] 86	%00'.26	98.00%	88.00%	93.00%	9/00:001
140,097 131,058 45,180 137,035 143,110 140,006 7,705 7,208 2,485 7,537 7,871 7,700 2,232 2,088 712 2,160 2,232 2,184 9,938 9,297 3,197 9,697 10,104 9,884 252,603,026 236,306,057 81,520,610 247,083,085 258,035,349 252,259,706 9,428 9,428 9,428 9,428 9,435 9,428 9,428 9,428 9,435 238,709,860 223,309,224 77,036,976 233,493,515 243,843,405 238,385,422	Fired tons/hr		202.48	200.27	202.48	202.48	204.89	206.90
7,705 7,208 2,485 7,537 7,871 7,700 2,232 2,088 712 2,160 2,232 2,184 9,938 9,297 3,197 9,697 10,104 9,884 252,603,026 236,306,057 81,520,610 247,083,085 258,035,349 252,259,706 9,428 9,428 9,428 9,428 9,435 238,709,860 223,309,224 77,036,976 233,493,515 243,843,405 238,385,422	}		131.058	45.180	137,035	143,110	140,006	147,777
2,232 2,088 712 2,160 2,232 2,184 9,938 9,297 3,197 9,697 10,104 9,884 252,603,026 236,306,057 81,520,610 247,083,085 258,035,349 252,259,706 9,428 9,428 9,428 9,428 9,428 238,709,860 223,309,224 77,036,976 233,493,515 243,843,405 238,385,422	Total Ach (400%)		7.208	2.485	7,537	7,871	7,700	8,128
2,232 2,297 3,197 9,697 10,104 9,884 252,603,026 236,306,057 81,520,610 247,083,085 258,035,349 252,259,706 9,428 9,428 9,428 9,435 238,709,860 223,309,224 77,036,976 233,493,515 243,843,405 238,385,422	2004 (a.: /0004) med indicated in the control of th		2000	712	2,160	2.232	2,184	2,281
9,938 9,297 3,197 9,097 10,104 5,104 9,938 252,259,706 3,428 9,428	l otal Limestone (100% up)- tons		, 600 000 1000	107.0) 60 C	70707	0 884	10,409
252,603,026 236,306,057 81,520,610 247,083,085 258,035,349 252,259,706 9,428 9,428 9,428 9,428 9,428 238,709,860 223,309,224 77,036,976 233,493,515 243,843,405 238,385,422	Total Flyash/Limestone Load- tons		9,297	3,18/	200,0	5,104	r 0 0	
252,603,026 236,306,057 81,520,610 247,083,085 258,035,349 252,259,700 9,428 9,428 9,428 9,428 9,428 9,428 9,428 238,709,860 223,309,224 77,036,976 233,493,515 243,843,405 238,385,422	Heat Rate Information:				1			070 070 000
9,428 9,428 9,422 9,428 9,428 9,428 9,435 238,709,860 223,309,224 77,036,976 233,493,515 243,843,405 238,385,422	Gross Generation		236,306,057	81,520,610	247,083,085	258,035,349	252,259,706	266,072,970
238,709,860 223,309,224 77,036,976 233,493,515 243,843,405 238,385,422	Distance Deet Bote BTI/kWhi	_	9.428	9.422	9,428	9,428	9,435	9,442
250,103,000 KEU,001,FET 11,000,001	Unit 1 Gross neat Rate: DIO/NVIII.		223 209 224	77 036 976	233,493,515	243.843.405	238,385,422	251,438,957
7,6'6 2,6'6 2,6'6 2,6'6	Net Generation Plant Net Heat Rate. BTU/kWh:	_	9,977	9,970	9,977	726,6	9,984	9,991

FIG. 59

2003	87.78%			2,440.77	1,589,275	87,410	24,910	112,321	2,864,502,616	9,432	2,706,954,973	9,981	2004	88.03%		1	2,440.77	1,589,275	87,410	24,910	112,321	2,864,502,616	9,432	2,706,954,973	9,981
	Gross Capacity Factor:			Fuel Fired tons/nr	tons	Total Ash (100% up)- tons	Total Limestone- tons	Total Flyash/Limestone Load- tons	Gross Generation	Unit 1 Gross Heat Rate- BTU/kWh:	Net Generation	Plant Net Heat Rate- BTU/kWh:		Gross Capacity Factor:	,		Fuel Fired tons/hr	tons	Total Ash (100% up)- tons	Total Limestone- tons	Total Flyash/Limestone Load- tons	Gross Generation	Unit 1 Gross Heat Rate- BTU/kWh:	Net Generation	Plant Net Heat Rate- BTU/kWh:
December-03	744	94.00%	%00.86	202.48	141,603	7.788	2,232	10,021	255,319,188	9,428	241,276,632	9,977	December-04	744	94.00%	38.00%	202.48	141,603	7,788	2,232	10,021	255.319.188	9.428	241,276,632	726,6
November-03	720	94.00%	38.00 %	202.48	137,035	7.537	2 160	9,697	247.083.085	9.428	233,493,515	9,977	November-04	720	94.00%	%00.86	202.48	137,035	7,537	2,160	6,697	247,083,085	9 428	233	
October-03	744	92.00%	%00'86	202.48	143.110	7 871	2 222	10,104	258.035.349	9.428	243.843.405	9,977	October-04	744	92.00%	38.00%	202.48	143,110	7.871	2.232	10,104	258 035 349	0.428	243,843,405	9,977
September-03	720	95.00%	%00'66	204.89	140.006	7 700	7,7	2, 184 9,884	252,259,706	9 435	238.385.422	9,934	September-04	720	92.00%	%00 ′66	204.89	140.006	7.700	2.184	9,884	252 259 706	0.425	238 385 422	9,934
August-03	744	%00.96	100.00%	206.90	147 777	0 128	0,120	10,409	266 072 970	0.442	257 438 957	9,991	August-04	744	%00'96	100.00%	206.90	147.777	8 128	2 284	10,409	020 070 930	600,072,970	3,44¢ 261 438 057	9,991

FIG. 60

FIG. 61

August-05 September-05 October-05 November-05 December-05 Gross Capacity Factor: 2005 744 720 7440			
August-05 September-05 October-05 November-05 December-05 Germber-05 744 720 744 720 744 96.00% 95.00% 94.00% 94.00% 94.00% 100.00% 99.00% 98.00% 98.00% 98.00% 206.90 204,89 202.48 202.48 202.48 147,777 140,006 143,110 137,035 141,603 Fuel Fired 8,128 7,700 7,871 7,537 7,788 Total 2,281 2,184 2,232 2,160 2,232 10,021 10,409 9,884 10,104 9,697 10,021 Total Flyash/ 266,072,970 252,259,706 258,035,349 247,083,085 255,319,188 Unit 1 Gross 9,442 9,428 9,428 9,428 9,428 9,428 9,991 9,934 9,977 9,977 9,977 Plant Net	<u>2005</u> 87.78%	2,440.77 1,589,275 87,410 24,910 112,321	2,864,502,616 9,432 2,706,954,973 9,981
August-05 September-05 October-05 November-05 744 720 744 720 744 720 744 720 744 720 720 720 100.00% 95.00% 95.00% 94.00% 206.90 204,89 202.48 202.48 147,777 140,006 143,110 137,035 8,128 7,700 7,871 7,537 2,281 2,184 2,232 2,160 10,409 9,884 10,104 9,697 266,072,970 252,259,706 258,035,349 247,083,085 9,442 9,428 9,428 9,428 9,442 9,435 9,428 9,428 9,991 9,934 9,977 9,977	Gross Capacity Factor:	Fuel Fired tons/hr tons Total Ash (100% up)- tons Total Limestone- tons Total Flyash/Limestone Load- tons	Gross Generation Unit 1 Gross Heat Rate- BTU/kWh: Net Generation Plant Net Heat Rate- BTU/kWh:
August-05 September-05 October-05 744 720 744 720 744 96.00% 95.00% 95.00% 100.00% 204.89 202.48 147,777 140,006 143,110 8,128 7,700 7,871 2,281 2,184 2,232 10,409 9,884 10,104 266,072,970 252,259,706 258,035,349 9,442 9,435 9,428 9,442 9,435 9,428 9,991 9,934 9,937		98.00% 202.48 141,603 7,788 2,232 10,021	255,319,188 9,428 241,276,632 9,977
August-05 744 744 720 96.00% 100.00% 206.90 147,777 140,006 8,128 7,700 2,281 2,184 10,409 9,884 266,072,970 252,259,706 9,442 9,934	November-05 720 94.00%	-	
August-05 744 96.00% 100.00% 206.90 147,777 8,128 2,281 10,409 266,072,970 9,442 251,438,957 9,991	October-05 744 95.00%	98.00% 202.48 143,110 7,871 2,232 10,104	258,035,349 9,428 243,843,405 9,977
August-05 744 96.00% 100.00% 206.90 147,777 8,128 2,281 10,409 266,072,970 9,442 251,438,957 9,991	September-05 720 95.00%	99.00% 204,89 140,006 7,700 2,184 9,884	252,259,706 9,435 238,385,422 9,934
† 9/ 7 9	August-05 744 96.00%	100.00% 206.90 147,777 8,128 2,281 10,409	266,072,970 9,442 251,438,957 9,991
		t9/7	9

FIG. 62

Assumed Tax (per ton of Carbon): \$40

Sub-Bituminous

	Ditummous
BTU/KWH	9,956
BTU/#	8,500
	48.30%
MW	373
	0.25%
	12.01
	32.00
	1.11
per Ton	\$30.00
	2,761,097,147
Tons	1,617,002
Tons	781,012
Tons	2,861,804
Total	\$48,631,344
\$/kwh	\$0.0176
Carbon Tax:	\$31,240,484
per KWH	\$0.0113
per MMBtu	\$1.14
	per Ton Tons Tons Tons Total \$/kwh Carbon Tax: per KWH

Tons CO2/kWh

0.001036473

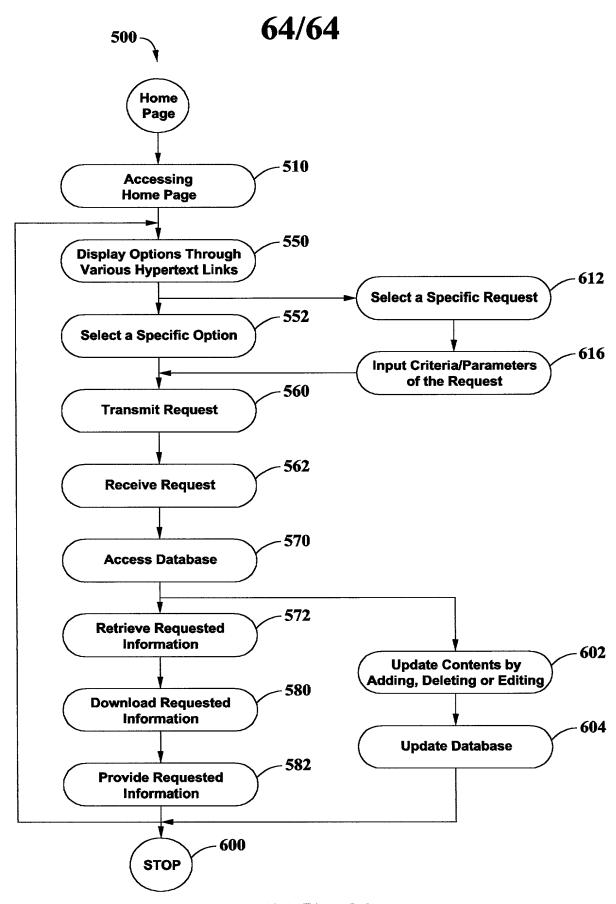


FIG. 64